

QCWA JOURNAL

Volume XLIII, Number 4 • Winter 1994



IN THIS ISSUE...

THE CENTENARY OF RADIOCOMMUNICATION; THE REGULAR COLUMNS; PLUS MUCH, MUCH, MORE. . .

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Our Cover

Internationally known artist Dean Wilhite has been commissioned to design this issue's cover. Dean, being a son of a ham (Chuck, K5NK, not yet a QCWAer), grew up knowing what a ham station looked like. Therefore, he was able to catch the spirit of what your editor had in mind for the cover.

We hope you like this interpretation of what might have been a surprise Christmas present for the Old Man.

Welcome Aboard New Advertisers

As you can see, we have added still more new advertisers. We welcome Ehrhorn Technological Operations (ETO), Kantronics, and Ham Radio Outlet. Additionally, we want to thank those advertisers who are supporting us regularly.

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Scholarship Fund Contributions Made

The following have made contributions to the QCWA Scholarship fund:

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The President's Message

Any of you members ever have to run a Board of Directors meeting? Well, as you noted from my last message, this was my first run at being president and, of course, running my first board meeting. Needless to say, I was nervous as H— (that's heck). But, fortunately for all of us, things seemed to go smoothly.

I want to thank all of you for electing a fine board. The new directors are all excellent people and will do a great job.

I have stated that I would not raise dues—but like all politicians, sometimes promising something and then delivering gets slightly involved. In any case, QCWA has been on the losing end as far as life membership costs are concerned. A study had been ongoing since before I took over as president and that study turned into an action at our board meeting. The life membership increase won't go into effect until June 1995 so if you want a bargain—get in at the old price.

I am very proud of our new *JOURNAL*—and Editor Joe Lynch, N6CL, assures me that it will grow and become even better.

Our scholarship program looks great also. You can all be proud that we are giving away 14 (that's right, *fourteen*) scholarships in '95. Also, renewals are well up but we still want growth. You can help—every member get a member—that's my motto.

73 de Lew McCoy, W1ICP, President, QCWA

The General Manager's Message

The end of the year has come so quickly and we wish all of you a pleasant Yule season. Many good developments have taken place and the new Board of Directors promises to be one of the best in the history of QCWA.

Pleasant news to end the year. We have two new Chapters and one reinstated Chapter to welcome into the QCWA family.

The first is Chapter 191, the Monterey Bay Chapter with Jerry Griffin, W8MEP as President and Rob Brownstein, NS6V as Secretary/Treasurer. Their Charter was effective October 18th, 1994.

Then Chapter 192, the Puerto Rico Chapter with Jose Toro, KP4RK as President and Victor Madera, KP4PQ, as Secretary/Treasurer. Their Charter was effective October 19, 1994.

Then at long last a group met and reorganized the Middle Tennessee Chapter # 105. The President is O. D. Keaton, WA4GLS and the Secretary/Treasurer is Russell Ward, WA4ZZU.

We have some more activity going on around the country involving Chapters and will report those involved in a future issue. Make these people welcome to the QCWA family.

From Jan and I our very best holiday greetings to all of you great people.

73 de Jim Walsh, W7LVN, GM, QCWA.

In the News

President Lew McCoy Recovering From Surgery

As this *JOURNAL* is being finished word has reached your editor that President Lew McCoy, W1ICP, underwent successful quintuple bypass surgery on December 1, 1994.

According to his wife, Martha, Lew is doing very well and is expected to be home around the 11th of December, probably after most of you receive this edition of the *JOURNAL*.

Get well cards can be addressed to Lew at his home QTH; the address can be found on page 172. It certainly would be a great encouragement to Lew if he were to receive hundreds of cards (even a QSL card will do).

Three QCWAers Publish Books

Three QCWAers have recently published books. President Lew McCoy, W1ICP, has recently published *Lew McCoy on Antennas*. Lew, who many feel wrote the book on antennas a long time ago, has written a compilation of his life's work in the 115 page volume. Available from CQ Communications, the book sells for \$15.95, plus shipping.

Also available from CQ Communications is Jerry Seveck, W2FMI's new book *Building Baluns and Ununs*. Jerry's book sells for \$19.95, plus shipping.

Prolific young adult author Cindy Wall, KA7TTT, has published her latest in a series of books. This one, titled *Easy Target*, once again involves Kim, KA7SJP, and Marc, KA7TTR, in another adventure that involves Amateur Radio. Available from the ARRL, her book sells for \$5.95, plus shipping.

All three author/QCWAers are to be congratulated on their successes in the publishing world.

1995 QCWA National Convention Planning Under Way

By: John Huntton, W1RW

Ten members of the QCWA 1995 National Convention committee journeyed from New England in September to attend the 1994 meeting at El Paso. The purpose, aside from enjoying the camaraderie of seeing old friends and meeting new ones, was to observe the procedures and garner more background to help in planning the Manchester, New Hampshire, sessions in October 1995.

The committee has had several meetings already, and will have details on convention schedules and programs, along with registration forms, etc., in the Spring issue of the *JOURNAL*. Make your plans now for October 13-14, 1995!

QCWA Officers And Board Of Directors

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Lew McCoy, W1ICP, 1500 Idaho Street, Silver City, NM 88061, 505-388-4862, Fax 505-538-8676

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Clarence Seid, W2KW	1969-1971
Barry Goldwater, K7UGA	1972-1973
Frank A. Gunther, W2ALS	1974-1977
Harry S. Gartsman, W6ATC	1978-1981
Stuart Meyer, W2GHK (SK)	1982-1985
Leland Smith, W5KL	1986-1989
Harry Dannals, W2HD	1989-1994

Executive Secretary/General Manager

Ralph Barber, W2ZM (SK)	1955-1964
Gus Girona, W2JE (SK)	1965-1973
Ethel Smith, K4LMB	1974-1976
Ted Heithecker, W5EJ (SK)	1976-1991

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The Quarter Century Wireless Association, Inc. was founded December 5, 1947, as a non-commercial association of radio amateurs organized for the promotion of interest in Amateur Radio communication and experimentation, for the establishment and advancement of the radio art and of the public welfare. QCWA is an incorporated association without capital stock chartered under the laws of the State of New York, and is a tax exempt 501(C)3 organization under the Internal Revenue Code of 1986. Its affairs are governed by a President, Vice-President, Secretary, Treasurer and a Board of Directors, whose voting members are elected every two years by the general membership. In order to qualify for membership in QCWA one must have demonstrable proof of having been first licensed as an Amateur Radio operator at least 25 years prior to application for membership and is currently licensed. Membership inquiries and general correspondence should be addressed to the business office at 159 E 16th Avenue, Eugene, OR 97401-4017 USA. Telephone, 503-683-0987. Fax/BBS, 503-683-4181.

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EDITORIAL

Life is precious. Handle with...

Life is precious. Handle with care.

It was last week that I spoke with President Lew McCoy, W1ICP. He was telling me that he had to go to the doctor to have some kind of procedure performed on his heart. He would be in the hospital in Las Cruces, New Mexico for a couple of days and then back home.

Then on Thursday I heard from Jim Walsh. He told me that Lew's doctor, after a thorough examination, had recommended a quintuple bypass. Jim went on to say that Lew had first resisted but the doctor told him that it was a matter of days before Lew would have the "big one" the one that would put him into the Silent Key category.

I imagined that Lew contemplated his options. Then he took a glance over to Martha, his wife, and then, seeing that worried look in her eyes, decided that he'd better go ahead with the surgery.

It was Friday morning and Martha called. She told me the surgery went just fine. She said that Lew had been awake a couple of times, was pretty sore but holding his own. She then excused herself by telling me that she had so many more phone calls to make. I told her that I would be making some too.

Upon hanging up with Martha I called Lew's and my friends at CQ and ARRL. Thanks to word of mouth and e-mail word of Lew's surgery quickly spread around the country. By the first of the week cards, flowers, and supportive phone calls started heading toward Las Cruces.

Life is precious. Handle with love.

It was then that I thought about how precious life is. One person, known by so many people in ham radio, is also cared for by so many people. We in the hobby are family to each other. When one member of our family is hurting we all are hurting. It is with love that we reach out to each other. It is feeling that love that makes the difference between choosing to give up and check out or going on.

When Lew saw that look in Martha's eyes, he may not at first have realized that behind that look of fright was also a look of "I love you very much and not only do I not know what I am going to do without you, I don't want to do without you because I will really miss you."

While Martha was conveying her feelings, she was also conveying the feelings of all of their friends. We, too, say that we don't want to do without you, Lew, not yet. You have so much more to live for and your friends want to share that life with you. You are a special member of the family and we want you to stick around so that we have the time to tell you just how much you mean to us.

So, with each bit of encouraging news coming from Las Cruces we all feel a bit relieved, knowing that Lew is on the mend and that we will have a bit more of that precious time with him.

Life is precious. Handle with haste.

Reflecting on Lew's situation causes me to think about life in general. Have I been putting off a decision to do something? Have I been putting off a decision to say something to someone? When we all were together at the National Convention we never thought that this may be the last time that we may see one of our own.

I go back to my point that we are family. Yes, as all family members, we have our scrapes now and then. That is natural. However, there is a saying, "Don't let the sun go down on your wrath." What does that mean to you or me?

At the end of the Convention, while I was waiting for the transportation to the airport in El Paso I had a conversation with Wes Randles. During the course of that conversation I came to the realization that something I had said to him in the past had hurt him. I didn't know it until that conversation. However, I took that moment to ask Wes for his forgiveness and to go on from there. Being the gentleman that he is, he accepted and agreed to go forward in a positive vein in our relationship.

Is there someone that you are at odds with? Take a moment and reflect on how quickly that relationship can be over. Is it worth it to you to hold on to your feelings? I don't think so.

What about decisions? Are they worth putting off? You only have one shot at this life and it is over before you know it. What are you waiting for?

Life is precious. Handle with prayer.

When Lew first told me that he was going to the hospital I said that I would be praying for him. He said that it didn't hurt to cover all the bases. You know me well enough by now to know that I am a deeply religious person. For me, "covering all the bases" is precisely what I do when I pray.

Lately, I have a lot to pray for. I am thankful every day that Lew is getting better. But most of all, I am thankful for life in general. I am thankful that I know the feeling of family that we have in our fine organization, QCWA. I am sure that you are also thankful. Perhaps during this holiday season you might just take a moment and reflect on what you are thankful for and express that thanks. Then take it one step further and remember the words of Tiny Tim in *A Christmas Carol*, that classic Dickens Christmas story that recounts old man Scrooge's conversion:

"God bless us, everyone."

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...73 de Joe, N6CL.

Letters to the Editor

Please send your letters to: Editor, QCWA JOURNAL, P. O. Box 73, Oklahoma City, OK 73101, Internet: 72124.2734@compuser.com, or fax at 405-528-0746.

The Wall Remembered

Dear Editor:

I enjoyed reading your article reminiscing about your friend who died in Vietnam—when he was serving there as a helicopter pilot. Your story was touching and made me remember the loss of a dear Christian friend, H. P. Rodgers.

H. P. was an infantryman with the 25th Infantry Division and lost his life shortly after the Division arrived in country. The year was 1966 and I was still stateside at an Army school at Fort Benjamin Harrison, in Indiana.

My last letter to H. P. was returned, stamped, "deceased-verified." What a sickening feeling!

I later served in Vietnam in 1967 with the 1st Signal Brigade (STRATCOM). I will always remember H. P. and the good Christian fellowship we shared in my quarters on Sunday evenings when I, too, was a member of the 25th Infantry, then at Schofield Barracks, in Hawaii.

I too saw H. P.'s name on a half size copy of the Wall that the local veterans association had sponsored when it was set up in nearby Ellinwood, Kansas for several days. I'm glad I visited that memorial tribute to our servicemen.

Thanks again for sharing your story in the JOURNAL.

73—Sincerely, Daniel Hays KOKD.

Dear Daniel,

I too served with the 25th Infantry albeit between 1967 and 1969 in Cu Chi. The first year I was there I was in the field as a Radio Relay Carrier Attendant. The second year I was in charge of the MARS station, AB8AJ.

Thanks for your kind letter. There are many stories from that war that no one wanted to think about for a long, long time.

73, Ed.

More Kudos for the New JOURNAL Look

Dear Editor:

I am writing to compliment you on the new format of the QCWA JOURNAL and the fine job you are doing in publishing this first-class radio magazine. It is a big improvement over the "old model" and ranks with all the great ham radio magazines like 73, CQ, and QST. Congratulations on your fine effort. It is greatly appreciated by all the QCWA members, including myself.

73 de Paul L. Wolf, W6RLP

Dear Editor:

Congratulations on the great job you have done on the fall Journal. Really Super!

The new president will do well. Lew, W1ICP, is an old friend dating back many years to the old WV ARRL State Convention at Jackson's Mills along with Vic Clark, W4KFC, and others.

Guess that dates me! Just received your 70 year certificate from Leland, W5KL. Am 87. Will try to keep the SOWP Capital while Jack, W4ZC, and John, W4HU, are attending the National Convention.

Again congratulations to you and your staff. It's wonderful to be active in the World's Greatest Hobby! Keep it up!

73 de Tom Haymond, W8CCN

Dear Editor:

The JOURNAL is a fine publication and all of us look forward to each new issue.

When I received my first issue of the N6CL and staff JOURNAL I said WOW! I was reminded of the young new preacher who had just given his first sermon and was being congratulated by the old pastor.

The young preacher replied, "Thanks but I put everything I had into it. Now what can I say next Sunday?"

Well, it seems our new JOURNAL doesn't have that problem. Each issue just gets better and better.

And to think it all started from day one of your takeover.

73 de Charlie Stouth, W3ZPP.

Missing Chapter Reports?

Dear Editor:

First of all, I want to say how I approve of the "new look" to the QCWA JOURNAL. It's great!

However something bothers me concerning my local chapter, Colorado Chapter 58. I have not seen any write-ups or photos for a very long time. I made a complaint the other day to one of the board members (W9KRE/Ø) and he told me that a write-up is sent in to you each and every quarter. If this is the case, then why does it not appear in the JOURNAL?

Please let me know if your records reflect that you have received these chapter write-ups each quarter.

73 de Chuck Albrecht, NØCKW.

Dear Chuck

As I am preparing this issue, I have gone through the stack of chapter reports that

I will be inserting. I find nothing from Chapter 58. I did a cursory examination of the boxes from previous issues and still cannot find anything from Chapter 58.

Perhaps your board member is mistaken the report he sends to Headquarters with the chapter report, which is a separate item in which you get to brag about what you have been doing to promote QCWA and have fun doing so.

I would like to blame the mailman, but on this one, five times is a bit too much to lay on him. Nevertheless, I hope the problem is solved and in the next issue I can print a report from Chapter 58.

73, Ed.

Critical Comments from Cousin Joe

Dear Editor:

I have just received the fall edition of the QCWA JOURNAL. The format is good, the reports interesting, but shades of Wayne Green, who raved for years about the "mice" type in QST. You have finer print than QST ever had! Even the ads are less than readable.

You are dealing with a readership who are aging. One of the first problems with aging is the eyes.

I don't know what your age is Joe, but take another look at what you have given us "old timers" to read.

Respectfully,

Joe Lynch, K9IFE

Dear Joe:

In an effort to squeeze in all the possible news that's fit to print, I have compacted in some areas, namely the letters to the editor, and the Wireless Exchange column. I realize that it gets harder to read as we get older. In an effort to address that problem, I will endeavor to not go below the size of type you see on this page.

Occasionally, however, I will have to break my own rule—and that will be on such items that traditionally are not widely read by most of the readers of magazines—items such as the minutes of the previous board meeting.

If, however, you, or any other reader find a page a particular problem, please continue to let me know. As I have all the editions that I have been a part of on disc, I can print out any page in a large size font.

Please let me know if this solution satisfactorily meets your needs.

73, Ed

Chapters on the Air

NR	Name	Day	Time	NC	Freq.	NR	Name	Day	Time	NC	Freq.
	QCWA CW	Wed	2000E	varies	7035	81	Long Island Chapter	Fri	2030L	K2YAW	147.33
	Florida SSB	Sat	1300Z	W4NWF	3955	84	Florida Chapter	Mon	1930L	KF4BU	146.28
	QCWA SSB	Sun	2000Z	varies	14347	85	Ark-La-Tex Chapter	Mon	2100L		146.67
	Florida SSB	Wed	1500Z	W4NWF	7274	87	Evergreen Chapter	Sun	0700L		3985
	NE Regional	Sun	0845L	W2AUF	3917	89	Palmetto Chapter	Sat	0900L	W4DNR	3927
1	Cleveland Chapter	Wed	2000L	W8NZD	146.88	89	Palmetto Chapter	Sun	1700L	N4LS	3695
2	Chicago Area Chapter	3Th	2130L	W9MOL	147.15	90	Razorback Chapter	Sun	1300L	W5MYZ	7227
4	Northwest Chapter	Sun	1630Z	W7PN	3655	91	Vic Clark Chapter	Sun	0900L	K4JAP	146.79
4	Northwest Chapter	Sun	2000Z	W7FNC	3952	92	Northern Lights	Thu	1900L		3890
4	Northwest Chapter	Sun	2300Z		3952	92	Northern Lights	Sun	2000L		146.97
5	Delaware Valley Chapter	Sun	1000L	W2EEQ	3917	95	Eastern New York	Sun	1130L		3900
6	Pittsburgh Chapter	Sun	1330Z	W8CSU	147.63	96	Gateway Chapter	Sat	1600Z	W2KGI	3933
7	Southern California	Sun	1000L	W6ZRZ	146.805	102	Dakota Chapter	Sun	1300Z	W0HOJ	3889
7	Southern California	Sun	1100L	K6BA	3695	104	Treasure State	Sat	0900L	W7DB	3938
8	Upper Midwest Chapter	Sat	0800L	W0KHG	3877	106	German Chapter	Tue	1730Z	DJ2ZB	3555
9	Southwest Ohio	Sun	1330L	W8DWT	3987	106	German Chapter	Mon	1700Z	DL9AR	3663
10	Michigan Chapter	Sun	1200Z	varies	3903	107	Central Florida	Thu	1230L		14245
11	Northern California	Sun	0930L	WA6AFT	3907	107	Central Florida	Sat	0900L	W4LHP	7243
12	Southeast Florida	Wed	2030L		146.76	108	Beaver State Chapter	Wed	0800L	KM7T	3908
14	San Diego Chapter	Wed	2030L	K6QM	145.52	109	Baton Rouge Chapter	Sun	2000L	W5URR	146.19
16	Arizona Chapter	Sun	0700L	W7ER	3890	109	Baton Rouge Chapter	Sun	0830L	W5URR	3905
17	Allentown-Bethlehem-Easton	Sun	1200L	K3GOX	3990	110	Kansas Chapter	Sat	1330Z		3920
19	Missouri Chapter	Wed	1900L	KD0IR	147.15	112	Yankee Chapter	Sun	0830L		3902
20	Baltimore Chapter	Mon	2100L	WA4GHU	147.285	114	North Texas Chapter	Sat	1430Z	WB5PHM	3943
21	Canton Ohio Chapter	Thu	1930L	K8UDO	146.79	117	Appleseed Chapter	Sun	2030L	W8JYY	147.36
25	Nebraska Chapter	Sat	1430Z	W0EUT	3983.5	118	Coastal Carolinas	Sat	0900L	W4EHF	3895
27	Houston Chapter	Thu	1930L	W5CCD	3866	120	Qtr Cty Wireless Women	Tue	1900Z	K4KUU	14295
28	Central New York	Sun	1030L	varies	3917	122	Lake Erie Tri-State	Sun	0930L	W3QPP	3915
30	West Virginia Chapter	Sun	1500L	W8CCR	3865	123	Lee DeForest Chapter	Sat	0730L	K0DBW	3890
31	Reading Chapter	Mon	2100L	W3BN	146.91	126	Piedmont Chapter	Sun	0845L		3935
32	Gator Chapter	Sat	0900L	varies	145.29	128	Pelican Chapter	MWF	1600L	K9BSL	145.29
33	Gunderson Penn-Jersey	Dly	2000L	W3APE	3982	128	Pelican Chapter	Sat	1000L	K9BSL	145.29
35	Midcontinent Chapter	Thu	1930L	W0WHK	146.97	130	Inland Empire	Fri	1600L	AA6J	3862
36	Northwest Indiana	4Wd	1900L	N9MRS	147.495	130	Inland Empire	Sat	0800L	AA6J	3862
37	Harrisburg Chapter	Wed	2100L	K3IUY	147.12	131	Gulf Coast Chapter	Tue	0900L	WF4V	28750
38	San Antonio Chapter	Sun	2030L	W5HRF	28650	134	Pine Tree Chapter	Sun	1430L	W1OGT	3942
41	Dallas Chapter	Sun	0715L	varies	3835	135	Mid-Michigan Chapter	Tue	2000L		146.70
44	Hoover Dam Chapter	Mon	2000L	W9RU	145.39	136	Austria Chapter	Wed	1700Z		3720
45	Citrus Chapter	Tue	1930L	WB4DRF	147.195	138	Central New Jersey	Tue	2200L	W2DME	147.045
46	Founder's Chapter	Sun	0930L	W2AUF	3917	140	Wyoming Chapter	Sat	1500Z	W7MZW	3923
46	Founder's Chapter	Thu	2030L	W2AUF	147.36	141	Hi-Plains Chapter	Sat	0900L		3933
48	Treasure Coast	Dly	1500Z		7153	142	Northwest Ohio	Wed	2000L	K8JA	145.58
49	Atlanta Chapter	Wed	2000L		145.41	143	North Colorado Chapter	Sun	0830L	N0CG	145.115
49	Atlanta Chapter	Sat	0900L	K4VN	3857	143	North Colorado Chapter	Sun	0900L	W0WSK	3905
51	Tex-La Golden Triangle	Mon	1830L	W5MSX	146.70	146	Twin State Chapter	Sun	0830L	WA1NBI	3898
51	Tex-La Golden Triangle	Sun	0930L		7.157	149	Nutmeg Chapter	Sun	1130L	W1KHL	3923
52	Mississippi Gulf Coast	Thu	2030L		147.225	150	Del-Mar-Va Chapter	Sun	0900L	W3BY	146.28
54	Tyler Chapter	Sun	0800L	W5CNO	3835	151	Wild Rose Chapter	Mon	2000L		3747
54	Tyler Chapter	Mon	1930L	W5RRM	28.650	152	Royal Palm Chapter	MWF	0800L	K4FA	14178
54	Tyler Chapter	Mon	1900L	W5RRM	28.150	152	Royal Palm Chapter	T-T	1300L	W4LZV	14178
55	Wisconsin Chapter	Sun	0830L		3985	152	Royal Palm Chapter	MWF	1300L	W4LZV	7220
58	Colorado Chapter	Sun	0900L	W0WSK	3905	154	Leo Meyerson Chapter	Thu	1830L	W9VKC	145.480
58	Colorado Chapter	Sun	0930L	varies	146.07	157	Pony Express Chapter	Sun	0830L	W0GGP	3955
60	East Tennessee	Sat	0900L	AA4WX	7233	160	Utah Chapter	Sat	1730Z	W7FVM	7272
61	Detroit Metro Chapter	Sun	0800L	W8IHX	3663	162	Southeast Wisconsin	Thu	2100L	W9NVK	147.27
62	Suwannee Chapter	Sat	0900L	W4PFJ	3940	162	Southeast Wisconsin	Thu	2100L	(alt)	146.55
63	Central Oklahoma Chapter	Sun	0800L	varies	3855	164	Big Bear Lake Chapter	Sun	1900L		224.02
63	Central Oklahoma Chapter	Thu	1900L		145.41	164	Big Bear Lake Chapter	Sun	1900L	WA6NLG	147.33
64	El Paso Chapter	Sat	0830L	varies	3933	165	York County Pennsylvania	Wed	2100L	W3AXC	146.97
65	Niagara Frontier	Sun	1330L	W2NW	3900	166	Colonial Chapter	Wed	1400L		147.21
70	National Capital	Thu	2000L		147.03	167	Gold Coast of California	Wed	1930L	KI6YN	147.885
73	Southern Ontario	Sun	0900L	VE3AGS	3773	172	New Orleans Chapter	Tue	1900L		146.61
73	Southern Ontario	Sun	1300L	VE3MO	7088	173	Golden Triangle Chapter	Tue	1930L		147.255
75	Central California Coast	Sat	0800L		3917	174	Wisconsin Badger	Sun	1600L		146.82
76	Blue Ridge Chapter	Sat	1300L		7180	181	Hudson Valley Chapter	Sun	0815L	W2OZA	3917
77	Northern New Jersey	Thu	2000L		147.285	182	Northeast Tennessee	Sun	2100L	W4VS	146.76
77	Northern New Jersey	Sun	1300L	W2OJW	3917	183	Pioneer Chapter	Sun	1030L	W1ALL	3923
79	Sunflower Chapter	Wed	2100L		146.82	184	Bay Area Chapter	Sun	1830L		146.64
81	Long Island Chapter	Sun	1130L	W2TLC	3917	187	Golden Isles Chapter	Wed	1900L		3920

Minutes of the Fall 1994 Board Meeting, QCWA, Inc., El Paso, TX, September 29-30, 1994

The meeting was called to order by President Lewis McCoy, W1ICP, at 8:00 AM on September 29, 1994 at Camino Real Paso del Norte Hotel.

Those in attendance were: President McCoy, Vice-President Jack Kelleher, W4ZC, Secretary John Swafford, W4HU, Treasurer Wes Randles, W4COW, Directors Milt Chaffee, W1EFW, Walt Brink, W3WPY, John Huntoon, W1RW, Edward Yoder, W3YMB, Milly Wise, W5OVH, Croft Taylor, VE3CT, John Troster, W6ISQ, John Edel, K8LBZ, Gary Harrison, WAORWS, President Emeritus Leland Smith, W5KL, and General Manager Jim Walsh, W7LVN. Newly elected Director Larry Shima, W0PAN, had advised president McCoy before the meeting that because of personal problems he would be unable to accept his position. Also present at the invitation of the Board were Joe Lynch N6CL, Editor of the *QCWA Journal*, Blanche Randles, W4GXZ, Chairperson of the Blind Tape Program, and Ethel Smith, K4LMB, outgoing Chairperson of the By-Laws Committee.

The Board observed a moment of silence for all Silent Keys and especially for Stewart Meyer, W2GHK, former QCWA President.

After two minor corrections were made to the April published minutes, the minutes were approved as amended.

Agenda: President McCoy added a Section 4A: Election of Director to replace Larry Shima. Director Croft Taylor requested that a new Section 10B2 be added with the title of 1996 Convention.

Introduction of the new Directors was made by President McCoy. They are: Gary Harrison WAORWS, Milly Wise W5OVH, Ed Yoder, W3YMB, and Croft Taylor, VE3CT.

Larry Shima's letter of resignation was read to the Board by President McCoy. A motion was made to elect a new Director. President McCoy advised the Board that nominations for a new Director were open. Treasurer Wes Randles nominated Gladys Chase, W1VPF. Director Brink nominated Sam Beraducci, W2IWB. After a brief review of the nominees backgrounds, Gladys Chase was elected.

President's Report: President McCoy reported to the Board on his Agenda for the future of QCWA. Major Agenda items include increase in membership (every member get a member), realignment of the committees, new itinerary including Palm Springs, FAX facilities recently installed for President, continued improvement of the *Journal*, Finance and Administration duties defined and reassigned, and scholarship Funds.

General Manager's Report: General Manager Walsh's report cited proposed updating of computer equipment to increase its capacity, and procurement of a new printer along with the sale of two older printers. The Board approved these requests.

Changes in the Blind Tape Program: It was recommended that the recipients of this service be limited to National members and they should be current in their dues. Blanche Randles, Committee Chairperson of this program, provided additional information on this matter. A motion made by Director Brink to accept the recommendations was passed.

Other items brought before the Board by the General Manager were: Proposal to discontinue the sale of T-Shirts/sweatshirts and dispose of present inventory. Motion made and seconded to approve this action. Motion carried.

Dues collection with the special envelopes continue to produce improved results. The GM will continue to use this procedure. The Headquarters station, W2MM, is now on the air with an IC-751 and

a GAP antenna. Members are encouraged to contact the Headquarters station.

Mailing software at Headquarters has been working well. The GM explained the new Bar-code program where certification of our ZIP+4 is required to qualify for reduced mailing rate. The anniversary to renew the mailing software will be in November. A motion was made and approved for this renewal plus renewal for the new dBase program for Windows.

QCWA JOURNAL Report: *JOURNAL* Editor Joe Lynch provided an in depth report on the latest *Journal*. He discussed the advertising rate and related subjects, such as, format, advertising, contracts, potential new advertisers, store sales. It was acknowledged that the IRS and Postal Service will keep an eye on our advertising and that we may have to pay some income tax.

The subject of store sales and the need to promote QCWA was discussed at some length. President McCoy strongly recommended and made a motion that the *JOURNAL* Editor should take the necessary steps to provide for store sales. The motion was approved.

Several Board members commented that the *Journal* was a great magazine and that the Editor should be commended. A recommendation was made by Treasurer Randles that the *JOURNAL* be published as close to the first of the month as possible so that publicity for the Conventions would be circulated on time. The Editor agreed to make a gradual adjustment to provide this request.

Committee Reports: Chairmen of the various committees presented their reports at this time. They included: Finance & Administration; Membership Services & Activities; Plans & Programs; Membership; Publicity & Awards; Constitution & By-Laws; Scholarship Fund; and FCC Liaison.

JOURNAL Contract: Director Yoder, the QCWA contract specialist, made several recommendations for changes to the Contract. A motion to increase the Editor's salary was approved.

Director Yoder made a motion that the paragraph on History be deleted, that services on publications be changed to the first of the month, and that the QCWA pay the Contractor \$2400 per issue. These motions were all seconded and approved. Finally, Director Yoder moved that the Contract as changed be approved. The motion was seconded and approved.

Convention Coordination: Treasurer Randles reported that the 1995 QCWA Convention will be held in Manchester, NH, at the Holiday Inn; Gladys Chase is the Convention Chairperson. A contract has been signed providing an operating station and hospitality room. A donation has been received providing an ICOM handheld. All the Committees are going forward; in summary, all looks good. Director Chaffee advised that there would be free parking, and that the Convention would be held October 13 & 14, 1995.

Director Taylor indicated that plans for the 1996 Convention at Ottawa are proceeding; that two meetings have already been held. George Roach, VE3BNO, is Committee Chairman; the Convention will be held on the 3, 4 & 5th of October 1996. The Board meeting will be held on the 3rd; there will be no complimentary parking. Hotel costs will be approximately \$50.00 per day. Efforts are underway to obtain a special call sign, VE3QCWA, for the Convention.

Treasurer Randles reported that 1997 would be our QCWA 50th Anniversary, that he had contacted several Chapters that have shown an interest

in hosting a Convention for that period. A vote was conducted to determine which Chapter should be selected. The Tennessee Valley Chapter 88 at Huntsville, AL was chosen.

Scholarship Fund: President Emeritus Leland Smith presented his report recommending that QCWA offer ten \$700 scholarships in 1995, plus four Name Identified scholarships of \$700 each for the same period. The balance in the Memorial scholarship Fund as of June 30, 1994 was \$118,998, an increase of \$3,154 over the \$115,884 as of February 28, 1994, reported at the Board meeting, April 21-22, 1994.

The current rate of return on our investments is 7.47%. President Emeritus Smith suggested that we consider adding a line on our application forms for scholarship donations, also, that members consider this worthy cause in their Wills.

FCC Liaison: Vice-President Kelleher indicated that the action on the Vanity Call Sign System would probably be completed in October or November, but that its implementation would probably not be effective until after the first of the year.

Action Items:

1. President McCoy reminded the Board that Jay Strom, K9BSL had been appointed as Activities Manager.

2. Dir. Brink advised that the National SSB Net was functioning well, in spite of poor band conditions. The Committee commended W6FQ, W4COW, W4HU, W0AP and new NCS W4KOG who have performed well.

3. The subject of Life Membership was discussed at some length; Treasurer Randles and GM Walsh provided details for consideration by the Board. A motion was made and approved to increase life membership from \$225 to \$300 effective June 1, 1995. Director Croft Taylor, VE3CT, took up the discussion of Canadian Life Membership. A decision was reached that the Canadian Life Membership should be increased by the same ratio as the US membership. It was moved, seconded, and passed that the Canadian Life Membership be increased to \$335 in US funds.

The meeting was adjourned until Friday AM.

The Board meeting was reconvened at 8:00 AM Friday.

1995 Budget: Director Huntoon made a motion that the proposed 1995 Budget submitted by the Treasurer Randles be approved. The motion was seconded and passed.

The meeting was adjourned at 9:50 AM for the Open Forum. Board highlights were presented at the Open Forum and were well received by the members present.

The Board reconvened at 11:14 AM. In a gesture of support and goodwill the Board donated \$270.00 to the scholarship program. Several subjects were discussed by the Board without formal action. Among them were: Antiquity column in the *Journal*; a QCWA Historian; (a report will be prepared for the next Board meeting); the Handbook; the Activities Manager and the date of the next Board meeting.

The usual round of comments were of a laudatory nature, all commenting on how well the meeting was run and greetings to the new Board members.

The meeting was adjourned at 12:03 PM

Respectfully submitted, John Swafford, W4HU, Secretary, QCWA.

FCC Highlights

By: Jack Kelleher, QCWA Vice-President, 612 Ednor Rd., Silver Spring, MD 20905, 301-924-1605, Fax 301-924-0420

We sorted our mail after having been out of town attending the QCWA Board meeting and Convention, and found that the October 1 issue of the "W5YI Report" has an excellent report on the status of FCC Rulemaking, gleaned from conversations with various FCC staff members. The following are excerpts from or quotes from this material and from the October 15, 1994 issue of the "ARRL Letter".

Vanity Callsigns

This proceeding has now gone through all the preliminary steps—Notice, Comments, and Reply Comments—and is now ready for Commission action, which is expected early next year. It is anticipated that a vanity call sign program will be adopted but the details on implementation are not yet known.

Immediate Temporary Operating Authority and Electronic Filing of Applications

In October 1993 the FCC adopted a Notice of Proposed Rulemaking (PR Docket 93-267; RM-8288) proposing to amend the Amateur Service Rules to extend temporary operating authority to new amateur operators.

At the 1994 VEC Conference Private Radio Bureau Chief Ralph Haller mentioned that officially, the proposal was still under consideration but that instant temporary licensing may not be necessary, since the VECs and the FCC are in the process of implementing the electronic filing of FCC Form 610 applications.

On October 24, 1994 the FCC released an Order amending its Amateur Rules effective December 20, 1994, as follows:

- To permit electronically filed data from VECs (paper applications also will still be accepted;
- To authorize operation as soon as the new license data appears in the amateur service licensee data base, rather than (as now) when the license document has been delivered (details of how the new licensee can determine his callsign will be announced later;
- To add a new rules section, "Examinee Conduct", to emphasize that an examinee must comply with the instructions given by the administering VEs;
- To treat "Technician Plus" as a license class;
- To provide for a "renewal short form" which the FCC says will be mailed to licensees in advance of their expiration date beginning sometime in 1995. The FCC added that renewal applications would be accepted no more than 90 days before the expiration date.

Lifetime Amateur Radio Licenses

This proposal from the American Radio Relay League suggests that the operator portion of the amateur radio license be recognized for the lifetime of the holder. Current licensees would have their operator licenses extended to lifetime. The station license portion would continue to carry a ten year term. In addition, amateurs whose operator license had already lapsed (on or after a date to be determined by the FCC) would be permitted to regain their previous operating privileges. A big advantage to applicants

who let their license expire is they would not have to be retested in order to reapply for their license. They would, however, receive a new callsign two years after their previous station license expired. (I.E., the current ten-year callsign limit, plus a two year grace period, would not be changed.)

The FCC has not yet decided whether to issue a Notice of Proposed Rule Making on this matter.



FCC "Customer Service"

As part of its overall plan to improve customer service, the FCC has installed a toll-free number which may be used to contact its Gettysburg, PA licensing division. The Customer Assistance Branch may be reached at 800-322-1117 during regular business days (Monday through Friday) between 8:00 AM and 4:30 PM, Eastern time.

The FCC also said, in a September 20th Public Notice, that "Within the next 18 months customer service standards will be developed for other areas of the Commission Operations to ensure FCC customers receive the highest quality of service possible. As these new standards become available, the FCC will inform its customers."

The Future of Morse Code

An article in the August 15 "W5YI Report" under the title "The Future of Amateur and Commercial Radiotelegraphy" begins with the statement, "With phasing out of radiotelegraphy on the high seas, can Amateur Radio be far behind?"

The impetus for such a statement is the development and implementation of the Global Maritime Distress and Safety System (GMDSS). All ships constructed after February 1, 1995 must comply with all GMDSS equipment and personnel requirements. Older vessels have until February 1, 1999 to conform. This and other related decisions by the International Maritime Organization (IMO) are interpreted to signal the end of the Morse code era at sea and, by inference, diminish the importance of the ITU regulations requiring amateurs to be proficient in Morse code. The current Region Regulation (ITU Radio Regulations, Article 32, RR #2735) reads, "Any person seeking a license to operate the apparatus of an amateur station shall prove that he is able to send correctly by hand and to receive correctly by ear texts in Morse code signals. The administrations concerned may, however, waive this requirement in the case of stations making use exclusively of frequencies above 30 MHz."

A New Zealand amateur group is already spearheading a major effort to amend the international Radio Regulations. The group (a private corporation, ORACLE, The Organization Requesting Alternatives by Code-Less Examinations, Inc.) is proposing modification of RR #2275 to read, "Administrations may take such measures as they judge necessary to verify the proficiency

in the use of Morse code of any person wishing to operate the apparatus of an amateur station." The key word is *may* rather than *shall*.

ORACLE's plan is to present arguments for abolishing the mandatory amateur service proficiency requirement to the VGE (Voluntary Group Experts). (The VGE is an ITU advisory committee with no power to make decisions.)

Morse Code and the IARU

The Administrative Council of the International Amateur Radio Union (IARU AC) established a "CW Ad Hoc Committee" to produce a report for consideration by the IARU AC at its meeting in September 1994. It is expected that after consideration by the IARU AC, the Report of the Committee may be made available to the IARU Regional organizations for further study and comment.

Restricted Permit?

(From the "Now we have heard it all" department.) The St. Paul MN Field Operations Bureau office of the FCC received a call from a very angry young man who claimed that his FCC radio license did not give him enough authority. He filed the FCC application, paid the fee, and now had a license that was useless. When questioned further, he indicated that he had a high-power stereo system in his car, and he enjoyed playing the unit at audio levels that would "crack the bones" of nearby pedestrians. After the first time police had charged him with disturbing the peace, he obtained the FCC license so he could play his high powered stereo. Unfortunately the police didn't see it his way. They were unimpressed with the FCC license, and again charged him with disturbing the peace as he went about "bone cracking". Tnx W5YL.

Proposed Reallocation of 2.4 GHz subbands, or, Things are (Almost) Never as Bad as They Seem

Apropos of several previous items on this subject, a recent report from the FCC to the Commerce Department strongly supports continued Amateur Radio presence in the 13 cm band. The report disagrees with NTIA's preliminary recommendations that specific segments of the band, which the amateur service shares on a secondary basis, be reallocated from government to non-government use. While the FCC praised NTIA for its efforts, it also stated that the NTIA proposals require modification in order to not impede the growing operations by amateurs in that portion of the spectrum.

The FCC specifically cited concerns in the Amateur Radio public that reallocations would disrupt operations in the band, and that NTIA failed to meet the statutory requirement that it attempt to determine the extent to which the band could be shared with the amateur service. The report noted that "...the largest factor affecting the future use of these bands is their existing availability for use by the amateur service.

FCC sets date for 2400-MHz comments

The FCC has set December 19, 1994, as the comment date for a Notice of Proposed Rule Making to convert a block of spectrum from federal government to commercial use, including parts of the 2400-MHz band shared by Amateur Radio on a secondary basis with the government.

In its voluminous NPRM, the FCC went to great length to cite the strenuous arguments submitted earlier by the ARRL against the proposal.

The League will be commenting further on this NPRM.

The proposal would allocate 2390 to 2400, 2402 to 2417 (both shared by amateurs), and 4660 to 4685 MHz, to the Fixed and Mobile Services. The FCC is required by the Omnibus Budget Reconciliation Act of 1993 to adopt rules for such reallocations by February 10, 1995.

The FCC said that "While we believe that [our] plan for allocation to Fixed and Mobile services would ensure that the spectrum is used for services that are most highly valued by the public, we also recognize that such an approach may be difficult to implement given certain factors that are unique to these bands. For example, there are incumbent amateur users in the 2390-2400 MHz and 2402-2417 MHz bands."

The FCC said that it believes several suggestions for use of the 2390 to 2400 MHz band are already adequately accommodated in other bands, and that parties supporting alternative proposals "should address the compatibility of the proposed service with the Amateur and other services."

In both the text of the NPRM and in footnotes the FCC acknowledged arguments from the Amateur Radio community, including the requirement of the Reconciliation Act to avoid excessive disruption of the amateur service and to determine the extent to which, in general, commercial users could share the frequency with Amateur Radio licensees.

The FCC asked for comments on several options, including:

- Maintaining a secondary allocation for the amateur service in all or part of this spectrum.
- Making the amateur service the primary user in a portion of this spectrum while either maintaining a secondary allocation in the remaining portions of the bands or eliminating the other portions from the amateur service.
- "We also solicit information," the FCC said, "on the degree of disruption to the Amateur service that would result if all or part of this spectrum was removed from the amateur service. We request comment on these options, including the ability of various radio services to share spectrum with the amateur service."

The FCC noted the League's argument that were amateurs to lose the spectrum in question, along with 2300 to 2310 MHz, which is also threatened, the remaining 35 MHz would be insufficient for amateur satellite operations, would prevent full duplex point-to-point operations in the 13 cm band, would eliminate weak signal operations carried out 'in that band, and would crowd Amateur Service operations in the 13 cm band into the least desirable spectrum near the center of the ISM band at 2450 MHz. The FCC also noted comments about the difficulty of sharing between commercial licensees and the Amateur Radio Service, and that "the Commission has used the continued availability to Amateurs of the 13 cm band to justify reallocating Amateur spectrum in lower bands to commercial services [i.e. 220 to 222 MHz] and that it would therefore be unjust for the Commission to now allocate this spectrum for commercial uses."

The full text of the NPRM, released by the FCC on November 8, is available from ARRL Headquarters on the HQ BBS, at 203-666-0578, and also from the ARRL Internet InfoServer, info@arll.org (see October 1994 QST, page 43). The file name is FCC94272.txt.

The reply comment date on the NPRM is January 3, 1995. Tnx "ARRL Letter".

The Centenary of Radiocommunication

By: Richard C. Kirby, WØLCT/HB9BOA, Retired Director, Radiocommunication Bureau, International Telecommunications Union

(Editor's note: The following is the text of the speech given by Dick Kirby, WØLCT/HB9BOA, at the annual joint meeting of the Foundation for Amateur Radio association and of other Washington area amateur radio clubs, this year held at Tyson's Corner, VA, on April 23, 1994. Because 1995 is the Centenary of Radiocommunication and some of us have been around since almost the beginning (or, at least we act that way) we feel this speech should have wider distribution in the form of an article in the JOURNAL. We hope you enjoy reading it as much as we enjoyed hearing it.)

It is a great occasion for me to be with you, senior and junior radio amateurs and guests, patient families, after-dinner prisoners. I owe a lot to Amateur Radio. But no fear, it cannot be paid back in one evening. To the Quarter Century Wireless Association, I appreciate that you accepted me after I had overqualified at half a century, and ARRL, which forgave several QRT's over fifty years.

I first arrived in this great capital fifty years ago this month, selected according to the Army MOS system to join the Signal Corps' newly forming Radio Propagation Unit, a detachment of the Office of the Chief Signal Officer, at Holabird Signal Depot, Baltimore. The news had come in Army fashion, at 6:00 AM formation, early April, 1944, at the University of Kentucky, where our class of 20 was dispatched to Signal Corps, Air Corps, Artillery, jobs everywhere. The new Radio Propagation Unit was set up to give technical guidance for use of radio frequencies in the European, North African, and Pacific war theaters. I had been a Minnesota engineering student, and active ham until radio silence from 7 December, 1941. It was in OCSigO that I met our host Jack Kelleher, W4ZC; silent key Ross Bateman, W4AO, and other Washington area legends. Some great radio scientists coached our radio propagation team, Drs. John Howard Dellinger and Newbern Smith of the National Bureau of Standards, and Dana Bailey, and Ken Norton. But that is not my story.

Centenary and Historical Overview

The International Telecommunication Union intends to observe the Centenary of Radiocommunication. I have been reviewing historical papers and perspectives, and I want to talk about earliest origins and pioneers of our amazing "wireless". Then I will describe the new ITU in the changing telecommunication environment.

We first asked ourselves the year in which to observe the "invention of radiocommunication". The possibility had evolved over decades. Some might say centuries, as after all, radiocommunication is a manifestation of electromagnetic force at a distance. My text is drawn largely from historians Orrin Dunlap¹, Charles Susskind², and the ITU book *Semaphore to Satellite*³ (Ed note: References are at the end of the article.)

Thales, Ampère, Faraday, Henry, Maxwell, Lodge, Branly, Rhigi

Thales of Miletus, Grecian mathematician, astronomer and philosopher, around 600 BC, contemplated the "magic power" of amber, its attractive force when rubbed by silk, and the attractive force of lodestone, later called magnetic. Amber, for its sunny color,

was called *elektron* from the Greek for sun-god. Nearly 2000 years passed until **William Gilbert**, in the Elizabethan period, described magnetism and electrical phenomena scientifically and stimulated the period of science which followed.

André Marie Ampère, French physicist and mathematician, proved in the 1820's by experiments that all known magnetic effects could be produced by an electric current alone, and that current in two parallel wires produces magnetic attraction or repulsion, again "force at a distance." Ampère introduced the term "electrodynamics".

No one advanced more the science of electromagnetism than **Michael Faraday**, the English experimentalist. He discovered *induction*, that a change of current in a conductor induced a current in a neighboring conductor. He found that induction between one charged conductor and another was influenced by the medium which separated them, or *dielectric*. He measured the storage effect of the dielectric, which we call capacity in "*farads*"—more often *microfarads*. Faraday showed not only that electric current produced magnetism, but that magnetism could produce electricity. He demonstrated *electrodynamic induction*, and *magneto-electric induction*, to the Royal Society in 1831.

Faraday also showed the effect of magnetism on a light beam, revealing the electro-magnetic character of light. He built and experimented in the famous *Faraday cage*, a screened room which shielded the most sensitive electrostatic detectors inside the cage from effects of powerful electromagnetic sources outside. Wasn't he close to wireless? His vision and careful experiments had set the stage for generation of electricity, and for electrical communication.

Joseph Henry, in America, independently paralleled Faraday's research on induction. Henry is equally credited with defining induction, particularly *self induction*, internationally measured in *Henrys*. He demonstrated, from a spark, induction which magnetized needles at a distance of 10 meters. He even set up a telegraph line in 1832 between his house and laboratory at then New Jersey College, now Princeton University.

These were the earliest discoverers. The rich phase of scientific and practical development of wireless communication itself spans the final quarter of the 19th century, beginning with Maxwell.

James Clerk Maxwell, in Dunlap's¹ admiring words, "Scottish physicist, author, natural philosopher, and eminent mathematician, discovered the ether...." In 1873, Maxwell showed mathematically that electromagnetic oscillations should propagate over distance. Maxwell's concept of the "ether", a medium to convey the electromagnetic force, proved unnecessary and disappeared without the least detraction from the genius and timelessness of his theory. His treatise on *Electricity and Magnetism* remains the foundation of radio and electrical communication. His concise equations describe the behavior of electromagnetic waves, transmission, induction, and radiation, providing a livelihood for electrical engineers and scientists today.

Heinrich Hertz's laboratory experiments in Germany in 1887-88 were inspired by Maxwell's theory. Hertz detection and measurement of electromagnetic waves proved the validity of Maxwell's wave theory. Had Hertz's objective been communication,

his demonstration showed the way; his results triggered the communication pioneers of the next ten years. Hertz's experiment produced waves at about 30 cm wavelength, or 1 GHz. What might have followed but for his premature death at age 36? *Hertz* is well-chosen as the international unit for frequency of electromagnetic waves.

Research followed to improve the detector and the source for electromagnetic radiation. Edouard Branly in France, Oliver Lodge in England, and Augusto Rhigi, at Bologna, Italy, were important links.

Edouard Branly had the idea of the coherer from his medical studies of the nervous system. The famous *Branly coherer* consisted of metal filings in a glass tube, which aligned in the presence of an electromagnetic field, and remained aligned until dislodged by mechanical vibration or tapping. It was the first detector of electromagnetic waves to be used in experiments by Lodge, Marconi, and Popov.

Oliver Lodge, physics professor at University College, Liverpool, had studied Maxwell's waves along transmission lines and later in free space, following Hertz's techniques. He used several types of detectors, including a Branly type, one of his own design, and an electroscope method by Boltzmann. He developed an electric bell tapper to decohere the metal filings of the Branly coherer, which he used in lecture experiments illustrating "Maxwell's theory of light". He demonstrated these results in a Hertz commemorative lecture at the *Royal Institution*, and published them in 1894. Lodge introduced resonance and tuning to increase sensitivity; he carried out experiments detecting signals at some distance. Lodge was more interested in science and teaching, and later admitted he hadn't "had the foresight to perceive" the importance for communication. His results were published and inspired others, including Marconi and Popov, and apparently some secret British naval communication trials.

Rhigi was Marconi's professor at Bologna; a scientist, he published many papers on Hertzian waves and followed Lodge's work. Rhigi admired Marconi's intellectual capacity and encouraged his experiments.

Marconi

Giulio Marconi was 20 years old in 1894 when the idea of wireless communication seized him on reading of Hertz and Lodge's experiments. He was 21 when he first demonstrated communication on his father's estate at Bologna. He then went to England, and was 22 when he showed wireless communication to key British supporters, and applied for his patent.

Susskind² summarizes that, in Marconi's first experiments in 1895, he used an ordinary spark induction coil and homemade coherers of the Branly type. The spark gap was a four-ball arrangement similar to one first proposed by Lodge and afterward improved by Rhigi. To turn the discharge on and off, Marconi inserted a telegraph key in the primary circuit of the induction coil and was thus able to cause short or long trains of sparks to jump across the gap. He found that connecting one terminal of his transmitter to an elevated metallic object, and the other to a grounded metal plate increased the capacitance, and the distance over which radiation could be detected.

Marconi further improved Branly's coherer, using an electric-bell mechanism for decoherence. He added a telegraphic printing instrument to record the received signals. He placed the spark gap of the transmitter along the focal line of a cylindrical parabolic metal reflector, much as Hertz had done, but even without the reflector, Marconi managed to receive signals at 2400 meters. This experiment was carried out near Bologna in the spring of 1895.

After his early success, he traveled to Britain in 1896 to exploit his invention in that maritime nation. His mother was of British origin and helped him to obtain support. William Henry Preece, chief engineer of the Government Telegraph Service, recognized the opportunity and obtained Post Office support. He conclusively demonstrated communication to Post Office officials in early 1896. On June 2, 1896 Marconi disclosed in print the details of his system and filed for a British patent. A US patent was issued in July 1897. Also in 1897 he demonstrated communication across the English Channel.

In December 1901 Marconi demonstrated trans-Atlantic reception of signals from the British Poldu station, using a kite antenna at St. John, Newfoundland. His trans-Atlantic experiment forever changed long distance communication. I was thrilled to visit this "Signal Hill" site in 1956. At the National Bureau of Standards, we had chosen an adjacent hill at St. John to transmit a signal at 36 MHz, received in the Azores, to confirm the "extreme distance range" of ionospheric scatter.

Popov

What about **Alexandr Stepanovich Popov**, the Russian scientist studying radio contemporary with Marconi? In 1895, Popov demonstrated detection of distant lightning strokes with his receiver using a Branly type coherer.

In January, 1896, he wrote an article saying, "...[I]n conclusion, I can express my hope that my apparatus will be applied for signaling at great distances by electric vibrations, as soon as there will have been invented a more powerful generator of such vibrations. From July, 1 1895, until now, my apparatus has worked very well as a lightning recorder."² There was a report of a meeting in Russia in 1896 at which he demonstrated communication, independently and within some weeks of Marconi's demonstrations to Post Office officials in England. After Popov's death in 1905, scientists in the Russian Physical Society, established a commission which investigated and reported in 1908 on Popov's work to claim his invention of wireless.

We are indebted to historian Charles Susskind, of the University of California, Berkeley, who studied this matter carefully and published a scholarly review in *The Proceedings of The IRE* in 1962². Popov, in 1895, clearly demonstrated a system to receive and record Hertzian electrical disturbances, including atmospheric discharges. Susskind considers that the 1908 Commission Report, which includes reference to the 1896 report of Popov's communication demonstration, does not document unambiguously that Popov's communication results predated Marconi. Popov's and Marconi's receiving techniques were very similar and undoubtedly independent, though both had drawn from Lodge and Branly.

Susskind concludes: "...1) On the basis of *printed publication*, Popov cannot be said to have 'invented radio', since he did not describe in print his use of his equipment for the transmission of intelligence before Marconi's *patent application* of June 2, 1896. According to this generally accepted criterion, if any single individual may be designated as the 'inventor of radio' (*i.e.* radiotelegraphy), it is Marconi.

"2) On the basis of historical research, there is indirect evidence that Popov demonstrated the transmission of intelligence to others on March 24, 1896. There is comparable evidence that Marconi demonstrated The transmission of intelligence at an even earlier date. According to this criterion, Popov's work was at the most contemporary with Marconi's, and probably later..."

He continues: "All credit should go to Popov for independently evolving the same practical receiver design from

Lodge's first suggestions as Marconi did, and for carrying out further experiments in the face of substantial obstacles. The Russians have good reason to be proud to have produced a pioneer of Popov's rank..."

At ITU, we have chosen 1995 to celebrate The Centenary of Radiocommunication, to be marked at World Telecommunication Day, May 17. This is 100 years after Marconi's first experiments at his father's Bologna estate, as well as Popov's early experiments in Russia. The Swiss Post Office, on ITU's behalf, has issued in 1994 an undated commemorative stamp, which should remain attractive through 1995.

The New ITU

A few words on The "New ITU", and adapting to the changing telecommunications environment. Since 1865, ITU has been a creature of the world's telecommunication services, government-operated in most of the world. It remains today an intergovernmental organization, a UN Agency since 1947. Telecommunication operating organizations and industry, and international organizations, including IARU, participate, have a voice, but do not vote. The ITU is the vehicle for global radio regulation to ensure equitable access to the frequency spectrum, freedom from harmful interference, standardization for interconnection of the world's telecommunication networks and services, and fostership of telecommunication development in a great part of the world with less than one telephone per 100 inhabitants. The ITU Headquarters is also the home of 4U1ITU, operated by the International Amateur Radio Club and many visiting hams, members of delegations to ITU conferences and meetings.

The changing telecommunication environment is more than convergence with information technology. In the United States, telecommunication has always been a business enterprise, while in most countries a government service associated with the post office. In a few years, telecommunications monopoly in the USA evolved to competition. In other major countries it is becoming business oriented, and competitive in a few. The trend continues today, with the popular theme, even for many developing countries, that availability and growth of telecommunications depend on business orientation, and where appropriate, competition. Radio, especially mobile, microwave fixed systems, and satellites, led this evolution. New proposals for non-geostationary satellite networks are accelerating The process and adding new dimensions.

The new environment, while bringing richer telecommunications to commerce and individuals in many countries, challenges an aging International Telecommunication Union on the eve of its 130th birthday. Following a three year study and recommendations by a high-level committee, an extraordinary Plenipotentiary Conference in December 1992, restructured the ITU and set new strategic planning. The new structure replaced the former CCITT, CCIR, and IFRB which I do not spell out. Dear to many old hearts, they are past history.

On 1 March, 1993, new ITU Sectors became responsible for radio communication, for telecommunication standardization, and for fostership of telecommunication in developing countries. The Secretary General remains the key official, manager and representative of ITU. A strategy of the new ITU is to expand and enhance participation of non-government telecommunication entities.

The first World Telecommunication Standardization Conference was held in Helsinki in 1993, and the first World

Telecommunication Development Conference was held in Buenos Aires in March 1994.

In the Radiocommunication Sector, a new pace is set for frequency allocation and radio regulation to accommodate new services. *World Radiocommunication Conferences (WRC)* are to be held every two years. The first was held in November 1993 to plan The agendas for WRCs to be held in 1995 and 1997, largely concerning mobile satellite systems. A *Radiocommunication Assembly* and *Study Groups* replace the former CCIR, working more closely with Radiocommunication Conferences. ITU-R Study Groups are the global front line for technical recommendations for use of new technology, as digital broadcasting and personal mobile communications, as well as for advances in spectrum management. A part time *Radio Regulations Board (RRB)*, with nine members to be elected from different countries, meets every few months as required, replacing the former IFRE with more limited functions.

The new *Radiocommunication Bureau* carries out the former IFRB's functions to receive and examine notifications of frequency assignments, to maintain the international frequency register, to assist in resolving harmful interference cases and to assist administrations in coordination and frequency management. The Bureau includes the former CCIR and IFRE Secretariats, and the services for radio regulations and maritime mobile, formerly in the General Secretariat. The Director also serves as Executive Secretary of the RRB.

These are interesting times for the new Bureau. One challenge is to facilitate the striking growth of new space systems. We are also adapting the portfolio of radio regulation software to a more modern computing platform, and developing means for electronic access for administrations to notify frequency assignments. And requests are multiplying from smaller countries for advice and assistance in development of their frequency management to meet national needs in the international context. A new *Radiocommunication Advisory Group* reviews strategy and activities for the Sector. It met early April 1994.

Closing

Amateur Radio itself has evolved, but remains important, not only for young scientists and engineers, and hobbyists, but for the global fellowship it represents. Computers are joining, not displacing, amateur radio—today's radios are 90% computer. The International Amateur Radio Union and ARRL are important to the future and to the extension of this unique global fellowship. I must tell you that IARU was represented at the ITU Radiocommunication Advisory Group in early April 1994, by Larry Price, W4RA. The IARU is always on the scene at World Radio Conferences, including Dick Baldwin, W4RU; and ARRL as well, with David Sumner, K1ZZ, and Paul Rinaldo, W4RI.

I have appreciated the chance to participate in this Hamfest, to recall the origins of our radio hobby and/or profession. Young people should know that this field promises more than ever a challenging career and fun.

References:

1. Dunlap, Orrin, *Radio's 100 Men of Science*, Harper & Brothers, NY 1944
2. Susskind, Charles, "Popov and the Beginnings of Radiotelegraphy," *Proc. IRE*, October, pp.2036-2047. 1962
3. International Telecommunication Union, *From Semaphore to Satellite*, ITU, Geneva, 1965.

QCWA Scholarship Winners

By: QCWA Staff

The Foundation for Amateur Radio, the organization that administers the scholarship program for QCWA has named the scholarship winners for the 1994-1995 school year.

General Scholarship Fund

The seven winners of the general fund scholarships are:

David A. Case, KA1NCN, Hampton, Connecticut
Jennifer Doerrie, KA5WMJ, Booker, Texas
Andrew S. Faiola, N3GLA, Silver Spring, Maryland
Kurt R. Fuller, NØROP, Fenton, Missouri
Joshua D. Hodges, KC4HTJ, Screven, Georgia
Stacy S. Jones, N5KRR, Harrison, Arkansas
Timothy D. Mah, N9JYM, Buffalo Grove, Illinois.

Ralph Hasslinger Charter Member Memorial Scholarship Fund

The winner of the Ralph Hasslinger Charter Member Memorial Scholarship is Peter S. Wyckoff, KA3WCA, Washington Crossing, Pennsylvania.

Max Jacobson-John Kelleher Family Scholarship Fund

The winner of the Max Jacobson-John Kelleher Family Scholarship is Matthew J. Minney, N8PGI, Shock, West Virginia.

Leo Meyerson Family Living Scholarship Fund

The winner of the Leo Meyerson Family Living Scholarship is Douglas P. Regulinski, N2QAN, Stony Brook, New York.

David Case, KA1NCN

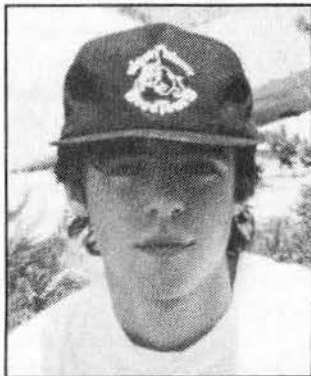
David has been a ham radio operator for half his life (since he was nine years old). Currently, he holds an Extra class license. David is especially interested in DXing and contesting and has operated contests in all modes. His DXCC confirmed country count is now at 307. This past summer he went on a solo DXpedition to St. Pierre et Miquelon, bringing his own equipment and making worldwide contacts in both voice and CW. The radio awards he has received include: 8BDXCC, 8BWAC, WAS, and IOTA.

David says that he is especially proud to be a member of the Yankee Clipper Contest Club and participate in worldwide contesting.

David has also volunteered to teach amateur radio classes and has helped coordinate emergency procedures for charity walk-a-thons and bike-a-thons. When he turned 18, he also became a volunteer examiner.

During summers and the school year David worked as a camp counselor, computer operator, and programmer.

At present, David attends Bard College in Annandale-on-Hudson, NY. His academic pursuits include Political Science and



Electrical Engineering. Ham radio friends on the bands and in person encouraged both of these interests.

Aside from radio, David enjoys music (he plays guitar and trumpet), bicycle riding, and hiking.

David was raised and resides in Hampton, CT. His parents are Lenore and Stuart Case.

Jennifer Doerrie, KA5WMJ

Jennifer graduated cum laude with a BA in Political Science and Spanish from Southwest Texas State University (San Marcos) in May. She is beginning post-graduate work in Latin American Studies and international law.

Jennifer is active in the following campus organizations: Debate Team, International Students' Association, Delta Phi Epsilon Foreign Service Organization, Vice-President, Pi Sigma Alpha Political Science Honor Society, Vice-President, Phi Sigma Iota Foreign Languages Honor Society, Secretary, Sigma Delta Pi Spanish Honor Society, Golden Key National Honor Society, Alpha Chi National Honor Society

Jennifer has received the following awards/honors: Award for Academic Excellence in Political Science, Howard M. Greene Award - Outstanding Senior in Political Science, Richard B. Henderson Outstanding Political Science Student Award, Abernathy Forensics Scholar, Sigma Delta Pi Scholarship for Spanish Studies (spent summer in Madrid, Spain as one of two national winners).

Jennifer's Amateur Radio activities include the following: First licensed in 1985 at age 15. Member of Top of the Panhandle ARC, ARES, Central States VHF Society. Interests: DX, VHF, Special Events Stations, Emergency Communications and Field Day. Primarily active on 2 meters now because of limitations of being at school.

Jennifer's other volunteer activities include: Volunteer Staff for AFS Exchange Program, also work coaching and judging high school debate, enjoy photography and traveling.

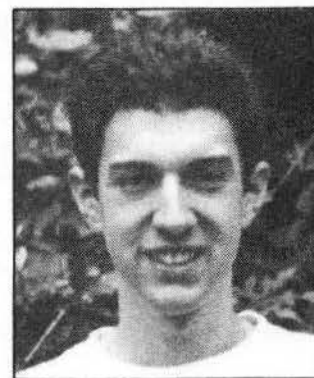
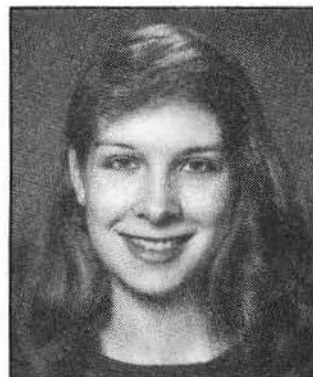
Jennifer's ham family members include: father, Jerome K5IS, step-mother, Bobette, N5UDJ, and sister, Elena KB5DAK.

Of the scholarship Jennifer states, "Please express to the QCWA my gratitude in being selected as one of their scholarship recipients."

Andrew S. Faiola, N3GLA

Andrew graduated from Washington University in St. Louis in the Spring of 1993 with a BA in Economics and a Spanish minor.

While in St. Louis, he was an active member of the



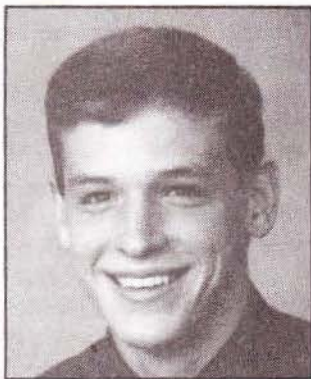
university's amateur radio club, and also operated briefly while studying in Spain. He is currently studying at George Washington University where he is in the second year of his graduate program at the Elliott School of International Affairs.

While in DC, Andrew has also taken internships at NASA, the Embassy of Mexico, and the Center for Strategic and International Studies.

Special thanks to his QCWA sponsor, Lawrence Trevor Fadner, W3GN.

Kurt R. Fuller, NØROP

Kurt is 18 years old and a graduate of Eureka Senior High School, Eureka, Missouri. He has had his Amateur Radio license since January, 1992. He mostly enjoys packet and using his skills in the, St. Louis County RACES and American Red Cross services. He has taken an HT to school with him and hopes to be active in the amateur world in Daytona Beach, Florida, where he is attending Embry-Riddle Aeronautical University. At EARU Kurt is studying to be an aerospace engineer.



Kurt is also an active member in Civil Air Patrol and a licensed operator in that service as well. Kurt says that he really enjoys the volunteerism of emergency service and assisting his fellow man in time of need.

Joshua D. Hodges, KC4HTJ

Joshua graduated from Wayne County High School with a 3.95 GPA. He is currently enrolled at Vanderbilt University. His majors are biomedical engineering and electrical engineering. He is considering a post graduate study of medicine, focusing on genetics.

Joshua, who is the son of Charles and Dorothy Hodges, became interested in Amateur Radio when he was 12. Because he was too young to drive. The chore of getting him to his Novice class fell to his father. Because his father had been interested in ham radio since the early 1960s, he decided to attend the classes as well. At the end of the class both Joshua and his father passed their Novice class license exams. They have both since upgraded to Technician.

Joshua is active on 2 meters and 10 meters when the band is opened. He is a member of the local radio club, JAWS and 10-10 International.

Besides ham radio, Joshua is interested and has participated in swimming, Karate, soccer, baseball, football, and music, having recently acquired the talent of playing the guitar.

Of the scholarship, Joshua says, "I am extremely honored that I was selected to receive the QCWA Scholarship of \$650.00. I used the money to upgrade my computer to meet the requirements for my school of engineering and to purchase the required books. I wish to thank the Foundation for Amateur Radio and QCWA for this honor. It has afforded me an opportunity that otherwise would have been a struggle. Thank you from the bottom of my heart."

Stacy Jones, N5KRR

Stacy is a senior Computer Information Systems major at the University of Arkansas. It is her goal to complete her degree in three years.

Stacy states that one of the greatest accomplishments of her life is earning the Advanced class license at the age of 14. She has been a member of ARRL since that time.

Stacy has an AA degree. Some of her activities include being a majorette, Homecoming Royalty, and a member of various clubs.



Timothy D. Mah, N9JYM

Timothy was first licensed in April 1990 as KB9ETE. Several months later he was issued a Technician class license, with his present call.

During Timothy's high school career he was a member of the Buffalo Grove High School ARC. While in high school he participated in several hidden transmitter hunts. Currently Timothy is a member of the ECHO repeater group in Mount Prospect, IL.

Outside of ham radio activities Timothy is very active in many music groups, including the Chicago Youth Symphony Orchestra during his senior year of high school.

This fall Timothy is a freshman at Northwestern University in Evanston, pursuing a double major in music education and pre-law. In the future he hopes to become either a music director or an attorney.

Timothy is very appreciative of the QCWA scholarship and says that it will be used to pay for his freshman expenses at Northwestern.



Peter S. Wyckoff, KA3WCA

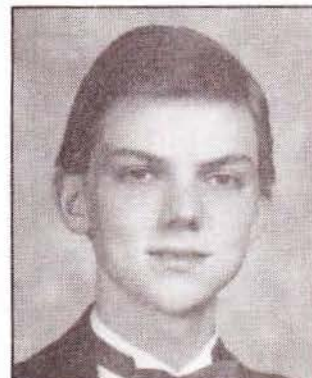
Peter says that he is interested in three main areas of Amateur Radio. The first is the technical aspects of ham radio. He says that he enjoys constructing antennas, building electronic projects, and reading ham radio books.

Second, he participates in amateur radio clubs as a member of the Delaware Valley Radio Association and the secretary of the Panther Amateur Radio Club at the University of Pittsburgh.

The final area of interest is operating. Peter's favorite band is 20 and 17 meters. He also likes to participate in contests, including Field Day, every year.

At the University of Pittsburgh Peter is an electrical engineering major. In his spare time he plays trumpet in the Pitt Band.

Of the scholarship, Peter says, "Thank you for awarding me the QCWA Ralph Hasslinger Charter Member Memorial Scholarship. I am looking forward to another successful school year."



Matthew J. Minney, N8PGI

Matthew is a 19 year old junior at Glenville State College, Glenville, West Virginia. As the recipient of this year's Max Jacobson—John Kelleher Family QCWA scholarship he has been presented with an opportunity to meet his expenses at Glenville State. Matt is majoring in mathematics education and minoring in social sciences.

Matt has held his Amateur Radio license for three years and is now an Extra class licensee. His an accredited Volunteer Examiner and an ARES/RACES member. He is most active on 2 meters voice and packet. Matt says that he can also be heard on HF SSB and CW. He is a member of the ARRL and the Pioneer ARA.

His other interests include computers, reading, and shortwave listening.

**Douglas P. Regulinski, N2QAN**

Douglas is a freshman at Cornell University. In writing about his anticipation of his first semester he states, "It is truly an exciting time in my life as I look forward to new experiences, meeting new friends, and, most importantly, furthering my education."

Having worked in the home garden since childhood, plants have always been an important part of Douglas's life. His interest in plants was augmented by what he learned in high school biology courses. Because of this life-long interest, he selected plant science,

with an emphasis in plant breeding and genetics, as his major at Cornell.

Douglas's first interest in Amateur Radio took root when he found out about packet radio. In the fall of 1991 he met John Pomfret, W2AAF (a life member of QCWA), who encouraged Douglas to get his license. In March 1992 Douglas was licensed as a Technician and received the call N2QAN.



Douglas soon found that the novelty of 2 meters FM wore off and was challenged to upgrade; in less than one year he moved all the way to Extra.

Douglas is active on all the HF bands, mostly operating SSB. He enjoys DXing, contesting, and awards chasing, having recently confirmed his 100th country.

As president of his high school ham club, Ward Mellville High School ARC (K2TKE), he has worked to bring the joy of Amateur Radio to other his age.

Douglas is a member of the ARRL and has become an accredited VE upon reaching his 18th birthday. While attending Cornell he plans to active at the Cornell ARC (W2CXM).

In addition to Amateur Radio Douglas is also an Eagle Scout, plays the cello, and enjoys listening to classical music.

Regarding the scholarship, Douglas states, "I would like to thank the QCWA and the Leo Meyerson family for their kind gift. I accept the scholarship with great honor and the most sincere gratitude."

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Leo Meyerson, WØGFQ, Inducted into QCWA Hall of Fame

By: Jim Musgrove, K5BZH, 400 B Swanee, Austin, TX 78752

One of the best known and most avid of our Amateur Radio operators, Leo Intone Meyerson, WØGFQ, was inducted into QCWA's Hall of Fame at the 1994 QCWA National Convention in El Paso, Texas.

This man is most deserving of the honor. He started promoting Amateur Radio since first receiving his license in 1928 and is continuing his efforts to this very day. Meyerson, still a believer in the abilities of our youth, has been very supportive of the QCWA Scholarship Program.

Leo's biography is being written at this time and is expected to be published in 1995. Even though his life seems centered around Amateur Radio, Leo Meyerson is a religious individual, family man, and a community supporter.

Leo, the oldest child of Sam and May Meyerson, both Russian immigrants, was born March 7, 1911 at his parent's home in South Omaha (later incorporated into Omaha) where his father owned a grocery store.

The Meyerson family moved across the river to Council Bluffs, Iowa in 1919. Leo developed his interest in radio a year later at the age of nine, while listening to a guest speaker visiting his school classroom, describe the value of wireless and the upcoming broadcast stations that would soon be scattering programs across the nation via the ether.

Leo and Harold Smith, a neighborhood boy, built a one tube regenerative receiver that allowed them to hear KDKA's first broadcast when it came on the air in 1920. Meyerson later built and experimented with several crystal sets. The youngster erected a long wire antenna that he strung down the alley behind the Meyerson home that helped "pull in" distant broadcast stations.

In 1924 Leo found plans in a magazine for constructing a small transmitter using a 201 tube, receiving tube that operated on a wavelength near 400 meters. The article stated it was capable of being heard for 10 to 15 miles.

He built his on a breadboard "borrowed" from his mother's kitchen. With this transmitter, he started broadcasting music, giving weather reports, and telling of neighborhood events. Three weeks later, a visit from the Commerce Department put an end to the crazy Meyerson kid's broadcasting.

In 1927 the enthusiastic youngster started removing turns from the coils in a Grebe receiver so he could listen for stations on higher frequencies. It was then that he discovered Amateur Radio when he encountered a station that contained a number in its call letters.

Leo, now interested in Amateur Radio, pursued a ham license and succeeded, receiving the call W9GFQ in 1928 during his junior year in high school. Later, when the lad entered college at the University of Nebraska, his ham gear went with him.

The teenager funded his radio hobby with money that he earned as an organist, playing at a local theater during the silent movie days. His ambition to become a professional organist came to an abrupt halt upon the introduction of talking pictures.

One afternoon in the fall of 1931 Leo was on his way to Kansas where he would meet and spend the night with a friend, Father Romuald Fox, W9ESL. They planned to attend a hamfest together the next day in Independence, Missouri. Leo missed a

train connection and it would be the next morning before he could resume his trip.

To make the best of the situation, Leo attended a local dance where a gorgeous young lady, Helen Wolinsky, waltzed into his life. After courting her for a year and half, primarily over ham radio, they eloped and were married on March 29, 1933.

Leo operated a small grocery store in Council Bluffs that he opened shortly before his wedding. When he was forced to close the store due to losing his lease in 1935, Leo borrowed \$1000 from his father and launched Wholesale Radio Laboratories.

As he was getting WRL off to a good start, Pearl Harbor was bombed and the United States found itself in World War II. Amateur radio operations were immediately ceased. Quickly searching for a viable means of supporting his family, Leo learned that the military would likely be in need of large quantities of crystals.

Leo called Al Shideler, W9IFI, a friend that owned a homemade gravity saw and had experience cutting quartz. Leo had some exposure to crystal technology as he had previously ground crystals to desired operating frequencies.

The pair called an officer in the Signal Corps and after being quizzed about their abilities, were directed to contact Dan Noble of the Galvin Manufacturing Company (now Motorola). After demonstrating they could grind crystals to specified frequencies, they were granted a contract and their new crystal company, Scientific Radio Products, was born.

The company proved successful and they become one of the largest crystal suppliers during the war. In 1943 Scientific Radio Products won the Army-Navy "E" Award.

After the War, Leo focused his attention back on WRL, which he soon renamed World Radio Laboratories, and Al Shideler relocated Scientific Radio Products to Omaha where he continued the crystal operation.

Leo soon moved WRL into manufacturing and they produced many transmitters which included the Globe Trotter, Globe Scout, Globe Chief, Globe Champion, and Globe King. The manufacturing operation was organized as its own company, WRL Manufacturing, in 1953. The name was changed to Globe Electronics in 1958.

Globe Electronics was sold to Textron in September of 1959. Leo was retained as president of the new Globe Division. In 1961 Textron moved Globe to Rockford, Illinois. Leo, not wishing to relocate, stayed in Council Bluffs where he continued his WRL operation.

Meyerson formed another manufacturing firm, Galaxy Electronics in 1962. Their primary amateur products were the Galaxy 300, Galaxy III, Galaxy V, and GT550 single sideband transceivers. Galaxy was sold to Hy-Gain in 1970.

Leo's son, Larry, became president of World Radio and Leo served as chairman of the board until his retirement in 1977. Larry converted World Radio into a very successful consumer products operation and remained president until selling the operation in 1988.

Throughout the years Leo has helped provide public service with his hobby. He used Amateur Radio during a blizzard

in 1948 to connect the citizens of Council Bluffs with the outside world. Helen was at his side helping with the messages.

In 1952, when Council Bluffs was threatened with the possibility of a severe flood, their Disaster Committee asked Meyerson to establish a communications system to assist the city police department. He accepted and with the help of some 200 ham operators, helped prevent the looting of evacuated homes. All amateurs involved received certificates of appreciation and Meyerson's participation won him the Edison Award.

Like other hams, Leo's amateur activities have included many fun events. He joined several other hams in the British Honduras for a DXpedition in 1965 during an ARRL DX contest. They operated under the call VP1GFQ and provided many contacts for hams throughout the world. In 1973 Leo was enticed into participating in the Baja 1000 Race, serving as a relay station with the call XE2GFQ.

Meyerson, having attended over 500 radio conventions, continues to be a familiar sight at many of today's conventions, often playing the piano or organ for sing-a-longs.

Leo, a life member of QCWA, served as a National Director from 1977 to 1987. WØGFQ, appreciative of the women hams, is a life member of QCWW. He is also a life member of several QCWA chapters throughout the nation.

QCWA Chapter 154 in the Greater Palm Springs area honored him in 1986 renaming their chapter after him. In 1991 he was named the QCWA Amateur Member of the Year.

Leo Meyerson is also a life member of the American Radio Relay League, Old Timers Club, and Society of Wireless Pioneers.

In 1977 the Leo I. Meyerson Emergency Communications Center was dedicated to him by the Omaha metropolitan area Amateur Radio operators.

He is an honorary member of the International Handicappers Association; life member of the AK-SAR-BEN Radio Club; life member International Mission Radio Association.

In 1980 Leo was elected a Fellow of the Radio Club of America, formed in 1909 and one of the most prestigious radio clubs in America. He was inducted into the Abraham Lincoln High School Hall of Fame in 1986.

Throughout his life Leo Meyerson has served with numerous associations and clubs. These include: B'Nai B'rith; Civic Music; Elks; Masons; Red Cross; Shriners; YMCA; Board Member and founder of Martin Therapy Center; Past President of Kiwanis; Past Chairman of United Way of the Midlands-Council Bluffs; Council Bluffs Chamber of Commerce; First Vice-President National Electronics Distributors of America; Vice-President of Directors Mercy Hospital, Council Bluffs; Opera Society Board, Century Member; Mid-America Boy Scouts; and many others. He is also an honorary citizen of Boys Town.

Currently Leo spends a great deal of time with the Amateur Radio exhibit at the Western Heritage Museum at Omaha, Nebraska. This display is one that projects a positive image of ham radio and is toured by thousands of people each month.

We are grateful for having Mr. Meyerson as an avid supporter of Amateur Radio and recognize that he has helped make the world a better place to live. Our thanks go to him for his many years of service and we extend our congratulations for his new honor.

Heathkit Roots

By: W. R. Plage, W4DQT

How Many of you old timers remember Amateur Radio before Heathkit? I do. My call, W4DQT, dates back to 1935, so I remember how it was without that wonderful Heathkit Catalog, full of kits for test equipment, transmitters, receivers, and even transceivers. I was also there during the early post WW II years when Heathkit began to emerge as a major electronic kit producer. I even remember its roots long before it arrived on the Amateur Radio Scene.

Ed Heath was a pioneer in the kit business long before his last name became synonymous with electronic kits. A pilot and aviation business man in the early 1900's, Heath operated the Heath Airplane Company. His operations included a flying school, mail-order aircraft parts and accessories, pilot's supplies, and manufactured the Heath "Parasol" airplane.

The Heath Parasol was a small, single place, high wing monoplane, powered by a four cylinder, 27 horsepower motorcycle engine. He offered it in kit form for \$199, less engine, or for \$975 ready to fly. He also offered a package deal for those buyers new to flying. The buyer bought the kit, built the airplane at the factory under the supervision of the Heath staff, and learned to fly while doing so. Hopefully, the customer completed his airplane and soloed at about the same time.

In my teenage years I became fascinated with airplanes, and have been ever since, so I was very much aware of Ed Heath and the Parasol. I dreamed of building my own Parasol. In the summer of 1929 I learned to fly at the age of 16 at Candler Field, a dirt field which had just become Atlanta's first municipal airport. That same airport is now Hartsfield International Terminal with many acres of concrete. I met Ed Heath there during my student pilot days. Like most of the pilots trying to make a living in aviation in those days, he also did air show flying. In fact, one of his air show acts was to loop a home-made glider four times from 1200 feet.

Heath stopped at Candler Field for gas one day when I was at the field, and I was introduced to him by my instructor, Doug Davis. This was a never-to-be-forgotten thrill, which I cherish to this day. Two years later, in 1931, he was killed test flying a new airplane design.

The Heath Airplane Company subsequently went through several changes in ownership, and in 1933 added a kit for an aircraft radio to its catalog. This was the start of what became a move into electronics, and the Heathkit company we all knew so well.

Life up at 10 GHz

By: Gordon West, WB6NOA, Features Editor, 2414 College Drive, Costa Mesa, CA 92626.

No, not 10 MHz! Not 10 meters! We're talking about 10,000 MHz, abbreviated 10 GHz, and pronounced JIG-a-Hertz. Everyone pronounces Giga with a hard "G", but it's really pronounced as if the word started out with the letter "J".

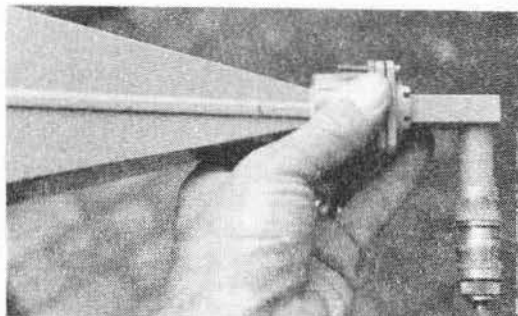
Okay, now that I brought you up to speed on megas and gigas, let's see what all the excitement is up on the amateur radio's top band, 10,000 through 10,500 MHz. Wow, a whopping 500 MHz of ham radio activity. And yes siree, there IS activity up on 10,000 megs with both homebrew gear as well as mail order transceivers all tuned up and ready to go. If ever you wanted to do a little exploration and gain the thrill of a QSO on a band higher than all of the others, read on!

Up at 10,000 megs, you are in a region affectionately known as "microwave". In fact, next time you are cleaning your little microwave oven, look at the tag on the back of the cabinet and chances are you'll discover that the amateur radio 10,000 MHz band is several thousand megahertz higher than microwave oven frequencies! The 10 GHz ham band is also sandwiched in between two popular radar bands--marine radar just below it at 9,000 MHz, and police speed-gun radar just above it at 10,525 MHz.

The Amateur Radio allocation at 10,000 MHz carries propagation characteristics similar to light wave frequencies:

- Propagation can be blocked by buildings and mountains.
- Signals can be reflected by buildings and mountains.
- Signals can be refracted by the atmosphere.
- Signal strength diminishes with the square of the distance.
- Power levels akin to a night light wouldn't be expected to go very far.

That last statement is absolutely wrong! Signals up at 10,000 MHz have been bounced off the moon, refracted via tropospheric ducting for over 600 miles, bounced off of mountains 300 miles away, and can even be reflected by passing aircraft.



10 GHz horn antenna with waveguide to SMA assembly. Photos courtesy the author.

Some of the first signals up at 10,000 MHz over 10 years ago employed wide band FM from converted microwave door-opener assemblies. The typical power levels were 50 mili watts, and the bandwidth was a fat 30 MHz. Gunn plexers were the rage, and tuning was accomplished by varying the voltage level on the VCO. And since you are sending a wide band (very wide!) FM signal, frequency

stability didn't really have to be critical, and any commercial set or homebrew equipment with built-in AFC (automatic frequency control) worked nifty after everything had a few minutes to warm up.

One of the most popular wide band FM compact transceivers sold mail order is still available today from Advanced Receiver Research Company, PO Box 1242, Burlington, Connecticut 06013, phone 203-582-9409.

"We have sold thousands throughout the United States and the world," comments a representative of ARR. "Our units support amateur television as well as voice, so I suspect that many of these units are used for point-to-point communications along ATV repeater routes."

So how far does a wide band FM 10,000 MHz signal go before it peters out? At about 50 mili watts, you can expect 50 to 75 mile range from mountain top to mountain top. Down on the flat lands, the curvature of the earth and obstructions will probably limit the range to no more than 10 to 12 miles. Even in major downtown parade routes, ATVers can get a couple of miles out of their equipment on 10,000 MHz by getting just the right bounce off of a nearby building.

Bigger antennas beyond the supplied 4-inch horn can help increase the path distance, but going from the little horn to a 2-foot dish, and then a 4-foot dish won't necessarily double or triple the range. Big dish antennas help, but wide band FM really can't appreciate the extra dB's you pick up.



Suzy West, N6GLF, tries a ten mile contact on 10 GHz.

But local weather conditions make a whopping difference on wide band FM 10,000 MHz range. During periods of hot, windless days, range can sometimes quadruple over a normal 40-mile path. I once communicated over 300 miles from Los Angeles into Mexico via tropospheric ducting. The tropo was so pronounced that Bill, WA6CAX, located 200 miles down the Baja peninsula indicated he could see the glow of the Los Angeles lights over the horizon. And since microwaves behave like light waves, this was a good clue that super refraction was at its best, and the wide band signals could reach over 300 miles away at 50 mili watts.

But the weak signal amateur operators were not satisfied with the performance of FM over CW and single sideband. Hams are now building transverters that will take a 28 MHz signal or a 144 MHz signal and kick it up to 10,000 MHz on transmit, and then step it down to 144 or 28 MHz on receive. Rock-solid stability is a major feat when you do this much multiplication in a transverter, so it takes a lot of patience when you decide to homebrew your own and come

up on 10 GHz. Both CW as well as single sideband--using upper sideband--is the favorite mode among weak signal operators.

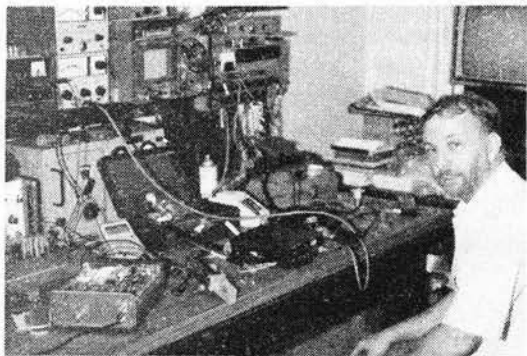
The weak signal boys and girls hang out at the bottom of the band around 10,368.100. CW 10,000 MHz beacons are coordinated between 10,368.300 and 10,368.400 according to the ARRL microwave band plan. Wide band FM and amateur television hug the top end of the band, and this leaves plenty of room for digital modes in between.

But not all hams are into building their own microwave equipment from scratch.

Enters, stage left, Jerry with SSB Electronic USA Company with a pre-assembled transverter systems to take 2-meter multi-mode mobile rigs and run them up to 10,000 MHz--SSB and CW with a whopping 300 mili watts output. And I anticipate once you get on the air, you will be working record-breaking distances with his \$1,000 transverter system.

Here are the details: Jerry, SSB Electronics, 124 Cherrywood Drive, Mountain Top, Pennsylvania 18707; 717-868-5643. Call him for his transverter catalogs.

Jerry is a great guy. He'll spend the time to show you how his equipment brings in 10 GHz and he can put together a package to give you a relatively simple assembly of pre assembled transverter elements. It will take about one weekend to do the final assembly. His system will work with Kenwood, Yaesu, and ICOM 2-meter SSB rigs.



Jim Ford, W6JF, Checks out transverter (left) with a Kenwood TR 751 2-meter all mode transceiver.

All brands of multi-mode rigs will work as the "exciter" for your new transverter system. However, you will need to *reduce* the power of the 2-meter multi-mode set so it won't exceed one watt output. You could easily do this by simply going into the low power mode, but it's bye-bye transverter if you should accidentally hit the high power button. I run the Kenwood 751 and have just switched over to the new remote-head Kenwood TM-255 multi-mode mobile 2-meter transceivers, and both easily adjust down to 1 watt output for the input of the 10 GHz transverter. Both sets also have relay switching on the back to automatically toggle the transverter from receive to transmit.

Here is what makes up the SSB Electronics 10 GHz system:

- XLO-1 local oscillator module
- XTM-1 10.368 GHz transmit up converter
- XRM-1 10.368 GHz receive down converter
- HP-8761 single-pole, double-throw SMA RF switch
- SMA to 10 GHz waveguide adapter
- Control relay
- Output TR relay

The XLO-1 local oscillator module puts 5 mili watts on 2556 MHz. The fifth overtone crystal at 106.5 MHz is used in the temperature compensated oscillator circuit, and all multiplier stages are filter-coupled in order to achieve a clean output.

The XTM-1 transmit mixer requires a LO injection signal of approximately 5 mili watts at 10.224 GHz. We set the onboard attenuator to approximately 1 watt of IF drive from the Kenwood, Yaesu, or ICOM 2-meter SSB transceiver.

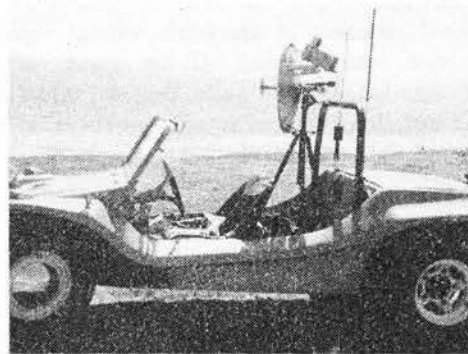
An active GaAsFET mixer is utilized to provide a sum and difference output of 10.224 GHz, plus or minus 144 MHz IF input. The summed output of the mixer is selected by an onboard cavity filter tuned to 10.368 GHz. The resulting signal is amplified to approximately 300 mili watts output by a three-cavity coupled GaAsFET amplifier stage.

The XRM-1 receive module contains a mixer for an injection signal of approximately 5 mili watts at 2556 MHz. A separate SMA connector is provided for low output at 10.224 GHz for transmit mixer operation. Receive signals are amplified by a two-stage, low-noise GaAsFET pre-amp with a noise figure of about two. A cavity filter follows the pre-amp to provide filtering. A mixer is used to provide IF output at 144 MHz, going to your new multi-mode mobile transceiver.

Once you have your station up and running, the best way to get on the air is to find someone else with similar equipment and start running some close-in contacts. Magazines like *CQ* regularly feature a VHF/UHF column which many times gives call signs of active microwave experts. Start out with an expert as your guide, and they'll get you onto the band in style.

If you know of 10 GHz beacons in your area, try tuning them in. Most 10 GHz work is horizontal. Start with a small horn antenna, and then get some flexible wave guide and work up to a 2-foot dish. The little horn will give you some surprising results.

CAUTION: NEVER STAND IN FRONT OF, AND NEVER LOOK INTO, AN OPERATING 10 GHz SYSTEM WHEN IT IS TRANSMITTING. These microwaves are dangerous. Stay away from any operating 10 GHz antenna system!



Gordo's 10 GHz mobile station parked along the Pacific Coast waiting for that elusive signal from Hawaii.

When you finally set a schedule, and complete a QSO on 10 GHz, it will bring back that real pioneering thrill of amateur radio you may have first experienced when you got on the air for the very first time. Just think--you're at the highest frontier of amateur radio frequencies where commercial gear is available to get you onto the airwaves.

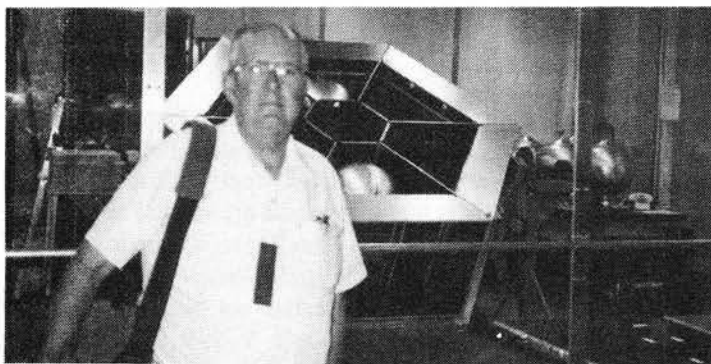
So if you're looking for a thrill... head for the top band and enjoy!

73 de Gordon West, WB6NOA.

Amateur Radio Satellite News

By: Keith Pugh, W5IU, Vice-President, Operations, AMSAT-NA, Satellite Editor, 3525 Winifred Dr., Ft. Worth, TX 76133, phone, 817-292-5633, Internet: 76177.3306@compuserve.com

This year's AMSAT-NA Space Symposium and Annual Meeting was held in Orlando, FL, on 7-9 October. Close proximity of the recently established Phase 3D Integration Facility, located on the Orlando International Airport, Cape Kennedy, and other tourist facilities all helped attract a record attendance of approximately 225. This meeting was certainly one of the best yet. Synopses of the papers presented and the activities associated with this year's meeting are the principal subjects of this issue of Amateur Radio Satellite News. Brief reports of Phase 3D activities that have taken place since the meeting are included.



Column editor Keith Pugh, W5IU, in front of the Phase 3D space frame. The two round cylinders inside of the space frame are fuel tanks. Photo courtesy this column editor.

Session A: Mission Status Briefings

Shuttle Amateur Radio Experiment (SAREX) Update '94 was the lead off presentation of the conference on Friday afternoon. Frank Bauer, KA3HDO, Lou McFadin, W5DID, and John Nichol, WD5EEV presented reports of the four SAREX missions flown in 1994. Together, these four missions (STS-60, STS-59, STS-65, and STS-64) lasted 44 days and included operations by 10 different Amateur Radio Operator Astronauts. The first mission of the year, STS-60, hosted the first Russian Cosmonaut to fly on the Shuttle, Sergei Krikalev. Sergei is widely known as U5MIR in the Amateur Radio community from his many days in space aboard the Russian Space Station, MIR. Sergei's activity on the Shuttle added a new dimension to the Shuttle's educational activities—SAREX contacts, in Russian language, with school children in Moscow. The '94 missions saw record numbers of QSOs with schools and the general Amateur Radio population. In addition to U5MIR, the following Astronaut/Hams participated in '94: KE4IQB, KC5ETH, N5QWL, N5RAX, KC5FVF, KC5HBV, KB5SIW, KC5HBS, and KC5HBR. Plans for SAREX '95 include three missions for a total of 31 days on orbit. Two MIR Docking missions are included in this plan. Joan Freeman, KD4SRD, wrapped up the SAREX activity with an excellent presentation of *A SAREX Case Study*. This paper detailed an Amateur Radio Network set up in

Florida schools to connect them during a SAREX mission. The presentation was topped off by showing a video tape, prepared by Joan and her group, that would be of interest to Hams of all ages.

Other presentations in this session included: *SEDSAT 1 Update* and *SEDSAT 2: Amateur Radio in Lunar Orbit* by Dennis Wingo, KD4ETA; *Report on DOVE Recovery Activities* by Robert Diersing, N5AHD; *UNAMSAT: An Operational Guide* by David Liberman, XE1TU; *Launch Opportunities Beyond Phase 3D* by Philip Chien, KC4YER; and, last but not least, a very entertaining and informative presentation titled *Hubble Space Telescope Photographs* by Dan Schultz, N8FGV.

Session B: Orbital Science and Systems

This Saturday morning session was opened by AMSAT-NA President, Bill Tynan, W3XO, and Conference Chairman, Al Brinkerhoff, WB5PMR. Topics ranged from *The Re-Entry of Oscar-13* by James Miller, G3RUH, presented by Peter Guelzow, DB2OS, to *Where Am I and What Time Is It?* (a GPS tutorial) by Tom Clark, W3IWI. From James' paper, we learned that his best estimate of Oscar-13's demise is December 5, 1996. Other experts are predicting dates within a couple of days of December 5, 1996. Tom's GPS Tutorial outlined several applications of GPS technology to operation around the typical ham shack that go beyond the typical navigation applications we usually think of. Other topics presented were: *Investigating the Integrated Control of Payloads—The Stanford SQUIRT Micro-satellite Program* by Prof. Robert Twiggs of Stanford University (formerly of Weber State University); *Use of Star Cameras for Attitude Determination of Amateur Radio Satellites* by Walter K. Daniel, KE3HP; *UoSAT: The Successful Evolution* by Doug Loughmiller, KO5I/GØSYX; and *The TAPR/AMSAT DSP-93 Project* by Greg Jones, WD5IVD, Bob Strickland, N5BRG, and Robert Diersing, N5AHD. First production deliveries of the DSP-93 kits will occur just before you read this column. This new product from TAPR/AMSAT should revolutionize the application of DSP technology to Amateur Radio.

Session C" Phase 3D Design Review

Saturday afternoon was devoted entirely to Phase 3D. All facets of the design were discussed. Some prototype hardware was available for "show and tell." Of course, the flight space frame complete with fuel tanks, heat pipes, and other items were available in the Phase 3D Integration Facility nearby. All meeting attendees were given the opportunity to visit the Integration Facility. Dick Jansson, WD4FAB, AMSAT-NA Vice President of Engineering led this session with *P3D Mechanical and Thermal Design*. Peter Guelzow, DB2OS, did another "pinch hitter" job for Dr. Karl Meinzer, DJ4ZC, AMSAT-DL President and P3D Project Leader and presented the paper *P3D RF Subsystems and Attitude Control*. Stan Wood, WA4NFY, presented *Antenna Designs of the P3D Spacecraft*. Lyle Johnson,

WA7GXD, former long time President of TAPR and leader of P3D digital design, presented *The P3D Integrated Housekeeping Unit (IHU) and RUDAK-U*. Lyle's talk was fascinating and pointed out some features that will revolutionize the thinking about Digital Communications for the Radio Amateur. Think of P3D as a high speed, real time, digital relay between users with nearly instant access to large land-based libraries of information. In some ways, it could be thought of as Amateur Radio's own small scale Internet with RF links instead of phone lines. Peter Guelzow, DB2OS, finally got to speak for himself when he presented his paper, *The P3D CAN, Controller Area Network*. After a short break, Dick Daniels, W4PUJ, discussed *The P3D Propulsion System*. Dick is a long time Amateur Satellite Builder and has been intimately involved in the propulsion systems on all of the P3 satellites. Tom Clark, W3IWI, led a series of talks about the many facets of the P3D GPS Experiment. Other participants in these talks were: WA1UVP, N3EUA, KD9KX, WA7GXD, and WA5FXE. Topics included: *The P3D GPS Experiment, The P3D GPS Hardware, The P3D GPS Computer System, and The P3D GPS Antennas*. Doug Loughmiller, KO5I/G0SYX, concluded the session with *AMSAT-UK Contributions to P3D*. After all of these papers, those of us that had not yet been on the Integration Facility tour were "really fired up and ready to go."

AMSAT-NA Banquet and Annual Meeting

Saturday evening, after suitable "attitude adjustment," was the time for food, fun, awards, and prizes. The after dinner speaker was Dr. Paul Shuch, N6TX, speaking on *The Search for Dark Matter*. Dr. Shuch shed some "light" in a sometimes humorous way on a very "dark" subject.

Session D: Satellite Operating

Sunday morning was the concluding session of the conference and, as usual, it was devoted to satellite operating techniques and topics. Keith Baker, KB1SF, author of *How to Operate the Amateur Satellites*, hosted the *Beginners Forum*. Other speakers and topics were: Robert Diersing, N5AHD, *Examination of AO-16 and UO-22 Activity*; Dr. Paul Shuch, N6TX, *Orbital Analysis by Sleight of Hand*; Ed Krome, KA9LNV, *Feeds for Mode S Dish Antennas*; Gould Smith, WA4SXM, *Beginners Guide to Radio Sputniks*; Ned Stearns, AA7A, *A Major Field Day Satellite Operation*; Roy Welch, W0SL, *AMSAT Software*; and last, John Hansen, WA0PTV, *Software for the Digital Birds*.

Phase 3D Integration Facility Tour

Sunday was the best opportunity to visit the Phase 3D Integration Facility. Free shuttle bus service was provided for everyone. The Phase 3D Integration Facility is located in a "Free Trade" zone on the Orlando International Airport. This is a big benefit for an international project such as Phase 3D. By having the integration facility in this area, many of the import/export problems that would normally be experienced with an international project can be avoided. The facility, leased by AMSAT, includes a clean room large enough for assembly and testing of the spacecraft along with office and laboratory space to support the operation. The facility is operated by dedicated

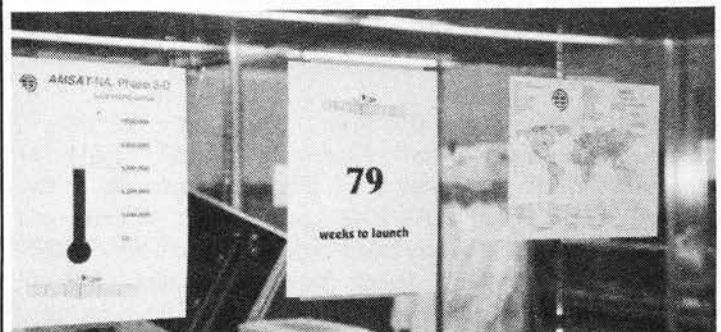
volunteers and was very well prepared and staffed. I might add, however, that staffing over the long haul, for the next one to one and a half years will be a problem. If you would like to spend some time doing volunteer work on an interesting project and have the skills or are willing to learn, please contact Stan Wood, WA4NFY, or Dick Jansson, WD4FAB. Everyone that took the tour was impressed with the facility and the progress evident so far. A lot has been done, but there is still a lot to do.

Board of Directors Meeting

Sunday and Monday the AMSAT-NA Board of Directors held their Fall meeting. A full report of that meeting is out of the scope of this column, but in summary officers were elected for the next year and many issues were discussed. Highlights were: Phase 3D progress and funding, SAREX frequency discussions, progress on SEDSAT, progress on DSP-93, and long range planning for AMSAT after Phase 3D is complete.

Conclusions

Everyone had a good time and learned a lot. *Proceedings of the AMSAT-NA 12th Space Symposium and AMSAT Annual Meeting* are available from AMSAT and the ARRL. Most of the papers mentioned here are in the *Proceedings* for your casual reading. Next year the Phase 3D reports should be even better since it will be completing fabrication and be into the test cycle by that time. A place has not been set for next year's meeting, but Orlando, FL, and Tucson, AZ, are the leading contenders at this time.



Just 79 weeks until launch of Phase 3D. Have you made your contribution to AMSAT in support of the launch? If you wish to do so, mail your tax deductible donation to AMSAT-NA, P. O. Box 27, Washington, DC 20044.

Since this year's meeting, another major integration planning meeting has been held in Marburg, Germany, to continue the firming up of thousands of details and some major items about the Phase 3D project. Excellent progress was reported, and although very tight, everything is still achievable. Another Marburg meeting is scheduled in mid December. This year has seen the new "bird" go from paper to reality, but the next year will be the "proof of the pudding." Let's all get behind this project and stay behind it to fruition. Please continue your full support with your talent and your dollars. Remember, "April 1996 or Bust!"

73 de Keith Pugh, W5IU

CQ DX

By: Chip Margelli, K7JA, DX Editor, 6652 Cerulean Avenue, Garden Grove, CA 92645

Can I do a DXpedition?

The notion of being "desired" can be a powerful motivator, whether we're talking about love (that's someone else's column) or DX (now that's *my* column). It doesn't take many years of being trampled in 20-meter phone pile-ups to make one salivate over the thought of being on the other side of a dawg pile. Imagine...all those DX hogs having to stand by while I am talking...all those QRP stations saying "Thank You" to *me*...all those QSL cards with IRCs and "Green Stamps" in my mailbox.

Then, of course, the realist in you starts to take over for a while: how will I carry a 50-foot tower and six-element beam on an airplane with me...how will I ever get permission to operate. . .how will I ever get my "better half" to agree to all this—a vacation spent pulling ropes and wires through the trees, when we could be dancing to the sounds of a steel band and drinking something out of a glass with an umbrella stuck in it?

My job this issue is to bring back the dreams, and make reality conform to those dreams! Yes, you yourself can do a DXpedition (however we care to define one), and garner all the fame and glory you want, and without destroying a family vacation or spending a fortune on excess baggage charges. You just have to identify a target, and find a way to make it work. Just as with most areas of life's pursuit, nothing is impossible, "Please" and "Thank You" can work wonders, and a Ham can find a way to do almost anything cheaper than anyone else on the planet. Let's look at three worthwhile and meaningful ways you can make yourself "desirable" to the rest of the DX world.

1. A Contest DXpedition

Whatever you might think of organized contests (an oxymoron, I know), you'll find that, when you travel to most any place off the beaten track, you will end up having a lot of very quick QSOs ("W1XYZ 5NN BK" etc.). So if you're going to send a bunch of fast reports, why not just find some contest that sounds like fun, and use it as your target date?

A contest expedition has the advantage of providing considerable focus to your hamming, as it will last, at most, 48 hours. It's often nice to be able to tell yourself, "OK, I'm going to put up some antennas, work the contest this weekend, and then I'm going to the beach!" A contest provides a nice cut-off point for your radio activity, something the rest of the family might well appreciate. Furthermore, there are lots of little Caribbean and Mediterranean islands out there that "serious" contesters really would appreciate working.

It's not necessary to go overboard on antennas for a contest, either. Remember, contest enthusiasts peak their station performance for contest weekends; if they need you badly enough, they'll find a way to hear you. Those of you that are ARRL members may have read about my little stunt in the 1993 November Sweepstakes contest (see my article "An Enchanted Sweepstakes Expedition" in May, 1994 *QST*); I operated NP4A in Puerto Rico using only an AEA Isolooop and some low-band wires, and won the 150-watt category (and placed tenth nationally even among the high-power chaps). If you want, for example, to operate 20 meters single-

band, a 2-element delta loop beam can be strung from some trees in a few minutes. Or try 40 single-band, using an inverted vee. Trust me, you'll have all the action you can stand.

Operating permission is often easy to obtain. Contact the ARRL's International Desk for details about the country you're considering. More often than not, the country's Communications Minister plays golf with the Minister of Tourism, and Amateur Radio licenses are facilitated as a way to encourage tourists to come to their country (and send out QSL cards enticing even more tourists to come). The Communications Ministry in your target country may even be able to recommend hotels or guest houses amenable to antennas. In any event, don't be intimidated at the thought of operating from a foreign country; it *can* happen!

2. A Satellite Expedition

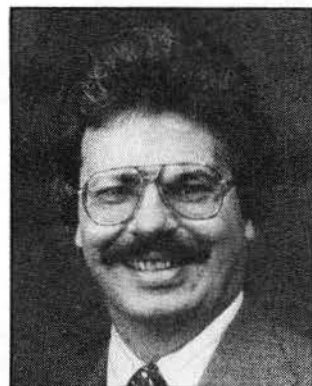
Many countries that are "Common" on the HF bands may be rather in demand on AO-13 (AMSAT-OSCAR 13). A satellite expedition has the advantage of requiring only small antennas for two meters and 70 cm (for Mode B operation, 435 MHz up and 145 MHz down), and there is no requirement for a 1.5 kW amplifier, either! The antennas can be built such that they will easily fit inside a suitcase, and you can even take only the elements, leave the booms at home, and then tape them to a couple of pieces of bamboo you get once you arrive!

Operating on AO-13 is no more difficult than working DX on 40-meter phone. You have a receive frequency and a transmit frequency, and you just need to ask your computer for a schedule of the satellite's position each day. And the good news is that, once the satellite goes below the horizon, you just switch the rig off and go get that drink with an umbrella stuck in it.

The only regulatory thing to watch for is the country's VHF and UHF spectrum allocation. Some countries do not allow Amateur operation on the 435 MHz band, and this would seriously impede your satellite operating possibilities. Just ask when you apply for your license, and you'll know for sure!

3. An IOTA Expedition

The IOTA (Islands On The Air) program has become immensely popular in recent years, especially as many DXers have worked all the available "countries" for DXCC. The nice part about the IOTA programme (don't correct my spelling, everyone, it's sponsored by the British [*I almost did! -ed*]) is that there is no "Five Band IOTA" award situation, so you won't be under pressure to more to this or that band or mode. And what a selection of operating targets. . .in Mexico alone, you can choose from Cedros, Mujeres, Santa Margarita, Cozumel, Clarion, Carmen, and probably a dozen other entities that will make IOTA chasers happy. If you take along



small antennas for 20 meters and maybe 40, you'll be plenty ready for lots of action from grateful Hams around the world.

Information about the IOTA awards can be obtained from Roger Balister, G3KMA, La Quinta, Mimbridge, Chobham, Woking, Surrey GU24 8AR, England.

Make It Happen

The important thing is to have fun. Don't miss out on the many sights and activities a vacation trip will offer you. . .remember, you're not the first (nor the last) person that will operate from your

QTH. But don't be afraid to take some simple gear along, and enjoy your hobby from a new and different perspective. There's nothing like calling CQ on 20 CW with a five-watt QRP rig, and having a five-kHz-wide pile-up be waiting for you when you send "K." Whether you work ten QSOs or 10,000, your first DXpedition experience will hook you for life. It's yet another way that the "DX Bug" can bite you.

But look at the bright side. . .it will create a great excuse for an annual trip to the Caribbean!

73 for now de Chip, K7JA/8P9EX.

The K9BSL/R Story

By: D. Bice, W4PCO

The "QCWA Repeater" pictured atop the MFL Tower Building is located at 540 Second Avenue South in St. Petersburg, FL, and commands one of the premier antenna sites in the Tampa Bay area. The antenna base measures exactly 175 feet above ground level, and with uncluttered transmitting paths in all directions, it is easy to understand the excellent signal reports regularly receive. Yes, DX stations from the Caribbean have been known to utilize its facilities.

The Antenna System (which has been demolished by lightning twice!) is a Sinclair 224 with an offset pattern. It is rated with a 9 dB forward gain. The Sinclair brand seems to handle the weather (severe storm) conditions better than its predecessors did. Basically, the transmitter is a Hamtronics TASS Exciter with an LPA 2-30 with 30 watts output (approximately 20 Watts out of the cavities). The receiver has a GBL Preselector a Hamtronics R144, with an LNW 144 Preamp—GaAsFET Design—an HA-144 Helical Resonator/Amplifier. It has 11 Tuned Circuits between the Antenna and Mixer. (What big ears you have, Grandma!)

The K9BSL Repeater is licensed to and operated by Jay Strom. He is assisted by Dwight Reder, N4POA, formerly with E Systems, now Manufacturing Manager at Superior Electronic, Sarasota and Dave Cargo, KC4IDY, both of whom have helped Jay extensively with various K9BSL/R problems as they arose over the five years that it has been on the air. (The first "test" transmissions were made in August 1989.)

The Repeater does have Emergency Power available and has been used for emergency communications, when called upon. This year's Tampa Bay ship collision and oil spill is a recent example. QCWA Regular 2-Meter Nets are the most popular

activity on the 145.29 MHz repeater. Tune in on MWF at 4:00 PM, Saturdays at 0900 (Gator Net) and 1000 (Pelican Net). The record for the most Check-Ins is held by the Pelicans in 1991, with 24.

73 de D. Bice, W4PCO.



The K9BSL/R location atop the MFL Tower Building in St. Petersburg, FL. Photo courtesy the author.

ELMER



By Rich Regent, K9GDF

Rules For the 38th Annual QCWA QSO Parties

By: Jay Strom, K9BSL, QCWA Activities Manager, 233-34th Avenue North, St. Petersburg, FL 33704-2241

The 38th Annual QCWA QSO Parties will be held on the second weekend in February (CW) and then again on the second weekend in March (Phone). This is a get together for all members to enjoy themselves and it is not a contest.

In 1994 the QSO Parties brought in 143 CW logs, which was a slight drop over last year's CW Parties. Also there were 134 entries in the Phone contest which was a slight increase. Hopefully this year's entries will be better. Not only will there be a better showing if more logs are submitted, which mean more stations have joined in the fun, but it will increase the overall enjoyment that we as an organization will get from meeting other members.

Some Chapters are among the missing. Please talk it up and see if we can't get at least one from every active chapter in both parties.

Please note: At the QCWA National Board meeting in October the Board of Directors voted the following change in the QSO Party Rules. Because this is a QSO party and in an effort to maintain the party concept no plaques will be issued. Only certificates will be issued to high scoring stations in both Phone and CW in the United States as well as in each of the six continental areas—Europe, Asia, Africa, South America and Oceania. The results will be published in the Summer 1995 issue of the *JOURNAL*. We are aiming for fun and fellowship in these Parties, so talk it up over the air and at your Chapter meetings.

TIMES OF THE PARTIES: The Annual QCWA Parties will be held on the second weekend in February for the CW portion and the second weekend in March for the Phone portion. The CW Party will begin on February 11th at 0001 UTC and end on February 12th at 2400 UTC. The Party for Phone will begin on March 11th at 0001 UTC and end on March 12th at 2400 UTC.

CONTACTS: Each contact with another QCWA member will count as a single (1) point on each band.

MULTIPLIERS: The QSO Party has only a multiplier of one (1). Every new Chapter worked is a multiplier of (1). A Chapter is counted only once, regardless of how many bands it is worked. If you do not belong to a Chapter, you may use the initials "AL" in place of a Chapter number. "AL" will mean "At Large". When counting "AL" contacts as a multiplier only one "AL" from each state, country or province will count, regardless of how many are worked. In other words the same rules will be used for "AL" as if it were a Chapter.

This year QRP stations are encouraged to participate in both the CW and Phone Parties. The multiplier will remain the same for all stations in either Party. If you are a QRP station, please mark the top of the first page of your log "QRP". In this way we will know if there is sufficient interest to establish a separate section.

EXCHANGES: A valid QSO must have the following minimum amount of information exchanged between stations (if it is not all there, the contact will not be considered):

1. QSO number, both sent and received.
2. Operator's first name.
3. Chapter identification (official name or number); member not belonging to a Chapter will use "AL."
4. State *must be there* for all "AL" members.

FREQUENCIES:

1. There will be no contact on the WARC frequencies (10 MHz, 18 MHz, or 24 MHz).
2. There will be no net, cross band or repeater contacts allowed.

SUGGESTED STARTING FREQUENCIES

CW	SSB
3,530 - 3,560 kHz	3,900 - 3,930 kHz
7,025 - 7,055 kHz	7,230 - 7,260 kHz
14,030 - 14,060 kHz	14,260 - 14,300 kHz
21,040 - 21,070 kHz	21,350 - 21,380 kHz
28,040 - 28,070 kHz	28,530 - 28,560 kHz

These are starting frequencies and if there is a pile up on these frequencies it is suggested that one look 5 kHz either side of these frequencies.

160 Meters (Suggested times: 0400-0500 UTC and 1200-1300 UTC)

6 and 2 meters, simplex only.

SCORING:

1. The total number of contacts times the total number of multipliers will equal your final score.
2. Each Chapter worked will count as only one multiplier. Each "AL" contact from each state, country, or province will be counted as a multiplier.
3. When changing bands, keep your contacts in order. This also applies to a different log sheet.
4. The last page of your log must show the total number of contacts times the total number of multipliers. This will be your final score. Print your final score on the first page of your log.
5. Since we are including QRP stations as a new category in this year's Parties, any station using QRP show on the front page of your log where it asks your mode of operation QRP when you check off. This will not only show your interest in using QRP in future Parties, but it will also aid the Board of Directors in deciding whether to include QRP operations in the future.

LOGS:

1. Please use the standard QCWA log - Photocopy the form shown on the following page in this *JOURNAL* - or prepare

one of your own (25 contacts per page) using the same format.

2. Stations operation in the QRP mode, as stated earlier, please designate as it will give the board an idea as to how popular this mode is with the membership.
3. Please do not mix Parties, but keep separate logs for both the CW and the Phone Parties.
4. Be sure everything is legible. Look over your logs carefully and decide if you would like to check another 200 logs just like it. Logs will not be returned.

AWARDS: If you qualify for an award please be sure to so designate on the first page of your log, and the award that you are seeking. If you already have the award, please do not ask for a second one.

If requesting a 100 member award, as an example, identify those members on the side of your log pages or send your "Dupe" sheet. It is not up to either the log checkers or the Activities Manager to find those 100 members.

Computer logs are to be in the same format as the Standard QCWA log sheet with entries no closed that triple spaced. If you

need help, get in touch with K3CP as he has a program that follows ours.

SENDING IN YOUR LOGS: Mail your logs to the following addresses:

CW logs:

Art Monsees, W4BK
420 Bay Ave. #1521
Clearwater, FL 34616

Phone logs:

Don Bice, W4PCO
5511-18th Ave. No.
St. Petersburg, FL 33710

Separate logs and scores must be submitted for both CW and Phone. All logs must be received by April 11, 1995. All logs received after this date will be entered for listing only. Logs with just one contact count. This will help with the checking. Plaques will be awarded to the top scorer worldwide in each Party.

There isn't anything more to it, Ladies and Gentlemen. So polish up the old key, bug or whatever and join in the fun. Hope to see you on one or the other dates.

73 de Jay Strom, K9BSL.

Classic Radio Exchange QSO Party

By: Stu Stephens, K8SJ/VP2MFA

The 1995 Classic Radio Exchange QSO party will take place between February 5-6, from 1900 UTC to 0400 UTC. The Classic Radio Exchange, "CX," is a celebration of the older commercial and homebrew equipment that was the pride of our ham shacks a few decades ago.

The object of the QSO Party is to restore, operate, and enjoy older equipment with like-minded hams. A Classic Radio is at least ten years old, an advantage but *not* required to operate in the CX. Actually, *you can use anything*. However, new gear has a distinct scoring liability and not as much fun!

Exchange: Send your name, RST, QTH, receiver and transmitter type (homebrew send final amp tube or transistor) and other interesting conversation. The same station may be worked with different equipment combinations on each band and each mode. For CW, call "CQ CX." For phone, call "CQ Classic Exchange."

Scoring: Multiply total QSOs (all bands and modes) by the following sum: (total number of different receivers and transmitters worked on each band and mode plus the total numbers of states/provinces/countries worked on each band and mode).

Multiply that total by your Classic Multiplier: the total years old of all receivers and transmitters used, three QSOs minimum per unit to qualify. If equipment is a transceiver, multiply age by two. If homebrew, count as 25 years old unless actual construction date or design is older. Non-participants may be worked for credit.

Suggested frequencies: CW up 60 kHz from low band edges; phone 3880, 7290, 14280, 21380, 28320 kHz and/or AM frequencies; Novice/Tech 20 KHz up low band edges. The frequencies of 7060 and 3560 kHz CW tend to be the most popular CX frequencies.

Certificates are awarded every now and then for the highest score, exotic equipment, the best excuse, and other unusual achievements. Send logs, comments, anecdotes, pictures, etc. to: Jim Hanlon, W8KGI/5, PO Box 581, Sandia Park, NM 87047 or Marty Reynolds, AA4RM, PC Box 13354, Atlanta GA 30324. Include an SASE for a copy of the next "CX Newsletter" and/or return of your materials.

Current Contests

Dec 31	RAC Canada Winter Contest
Dec 31	Straight Key Night
Jan 7-8	ARRL RTTY Roundup
Jan 1-15	CQ Gang Award QSO Party
Jan 7-8	Michigan QRP CW Contest
Jan 7-8	North American CW QSO Party
Jan 14-15	North American SSB QSO Party
Jan 14-15	HA DX Contest
Jan 21-22	YL-ISSB CW QSO Party
Jan 21-23	ARRL VHF Sweepstakes
Jan 27-29	CQ WW 160 M CW Contest
Feb 5-6	Classic Radio Exchange
Feb 11-12	QCWA CW QSO Party
Feb 18-19	ARRL CW DX Contest
Feb 18-19	YL-ISSB SSB QSO Party
Feb 19	Colorado QRP Club QSO Party
Feb 24-26	YL-OM YLRL CW Contest
Feb 24-26	CQ WW 160 M SSB Contest
Mar 4-5	ARRL SSB DX Contest
Mar 11-12	QCWA SSB QSO Party
Mar 18-19	Bermuda Contest
Mar 18-19	Alaska QSO Party
Mar 18-19	BARTG RTTY Contest
Mar 18-19	Virginia QSO Party
Mar 24-25	CQ WW WPX SSB Contest
Apr 1-2	Holy Land DX Contest
Apr 1-2	Italian YLRC XVIII Int'l Contest

Courtesy John Dorr, K1AR, and CQ magazine

1995 QCWA QSO Party Log Form

Name _____ Call _____ Final Score _____

Address _____

PHONE _____ CW _____ CHAPTER _____ QCWA No. _____

[illegible]

Totals this page

1995 QCWA QSO Party Checklist

States and Provinces and Chapter Check Lists

Please Note: Thirteen Chapters have failed to submit a Chapter Report for 1994 and are therefore not valid as multipliers in the QSO Parties. Those Chapters are identified as being blocked out. You **CANNOT COUNT** that Chapter as a multiplier.

State/Prov	Abrev	Wk	State/Prov	Abrev	Wk	Ch	Wk	Ch	Wk	Ch	Wk	Ch	Wk	Ch	Wk		
UNITED STATES			New York	NY		1		33		65		97	■	129	■	161	
Alabama	AL		North Carolina	NC		2		34		66		98		130		162	
Alaska	AK		North Dakota	ND		3	■	35		67		99		131		163	
Arizona	AZ		Ohio	OH		4		36		68	■	100		132		164	
Arkansas	AR		Oklahoma	OK		5		37		69		101		133		165	
California	CA		Oregon	OR		6		38		70		102		134		166	
Connecticut	CT		Pennsylvania	PA		7		39		71	■	103		135		167	■
Delaware	DE		Rhode Island	RI		8		40		72		104		136		168	
Dist. of Columbia	DC		South Carolina	SC		9		41		73		105		137		169	
Florida	FL		South Dakota	SD		10		42		74		106		138		170	
Georgia	GA		Tennessee	TN		11		43		75		107		139		171	
Hawaii	HI		Texas	TX		12		44		76		108		140		172	
Idaho	ID		Utah	UT		13		45		77		109		141		173	
Illinois	IL		Vermont	VT		14		46		78	■	110		142		174	
Indiana	IN		Virginia	VA		15		47		79		111		143		175	
Iowa	IA		Washington	WA		16		48		80		112		144		176	
Kansas	KS		West Virginia	WV		17		49		81		113		145		177	
Kentucky	KY		Wisconsin	WI		18		50		82		114		146		178	
Louisiana	LA		Wyoming	WY		19		51		83		115		147		179	
Maine	ME		CANADA			20		52	■	84		116		148		180	
Maryland	MD		Alberta	AB		21		53		85		117		149		181	
Massachusetts	MA		British Columbia	BC		22		54		86		118	■	150		182	
Michigan	MI		Manitoba	MB		23		55		87		119		151		183	
Minnesota	MN		New Brunswick	NB		24		56		88		120		152		184	
Mississippi	MS		Newfoundland	NF		25		57		89		121		153		185	■
Missouri	MO		NW Territories	NT		26		58		90		122		154		186	
Montana	MT		Nova Scotia	NS		27		59		91		123		155		187	
Nebraska	NE		Ontario	ON		28		60		92		124	■	156	■	188	
Nevada	NV		Prince Edward Is	PE		29		61	■	93		125		157		189	
New Hampshire	NH		Quebec	PQ		30		62		94		126		158		190	
New Jersey	NJ		Saskatchewan	SK		31		63		95		127		159		191	
New Mexico	NM		Yukon	YK		32		64		96		128		160		192	

QUARTER CENTURY WIRELESS ASSOCIATION, INC.

159 East 16th Ave, Eugene, OR 97401-4017

(503) 683-0987

FAX (503) 683-4181



This form for use by all U.S. Applicants
for membership in QCWA
Effective 10/1/93

For Office Use Only

Membership No. _____

Date _____

First Licensed, Year _____

Deposit Record _____

Have you been previously enrolled in QCWA ? _____

I, _____, _____

(Print Name Clearly)

Present Call

having been licensed as an amateur 25 or more years ago and presently holding the call listed above
(it is not necessary to have been licensed the entire 25 years) hereby apply for membership in QCWA..
I understand that proof of the original date of licensing is required. My complete mailing address is :

Street Number and Name _____ City _____ State _____ Zip Code _____
I will keep QCWA Headquarters advised of changes in my address and/or call sign. My first Amateur
license was issued _____ Other calls held _____
I wish to become affiliated with QCWA Chapter _____
Date of Birth _____ Birthplace _____
Present occupation / business _____
If retired, what was major life work ? _____
Other organizations you belong to _____

Your Signature _____

SCHEDULE OF MEMBERSHIP FEES

Select one of the following plans

	Members	Family	
QCWA Dues for a one-year period	\$15.00		_____
QCWA Dues for a two-year period	\$25.00		_____
QCWA Dues for a three-year period	\$35.00	12.00	_____
QCWA Life Membership	\$225.00	90.00	_____
Payable in 3 equal installments			
of \$80.00 each, in a one-year period	\$240.00	105.00 (3 pay of \$35.00)	_____

Initial registration fee, all new members \$3.00 _____

Gold membership pins are available, your call engraved, no year tags. Check fastener.

Tie-tac _____, Screw button _____, Safety pin _____ \$10.00 each _____

Year tag pins, 25, 30, 35, 40, 45, 50, 55, 60, 65, 70 or 75 tie-tac only \$15.00 each _____

Total _____

Proposed by _____, Call _____, No. _____

Member Supplies

Order Blank

QCWA Lapel pins are gold plated, with call engraved.

Two types are available.

- No year tags. Choose tie-tack, safety-pin, or screw type.

Plain pins (no year), each \$10.00

- With year tags (clutch-type only). Specify year—25, 30, 35, 40, 45, 50, 55, 60, 65, 70, or 75.

Year pins, each \$15.00

QCWA Life Member pin \$ 5.00

QCWA Embroidered emblem \$ 5.00

450 QCWA Red stamps (regular) \$ 3.00

450 QCWA Gold stamps (Life) \$ 3.00

400 QCWA Yellow Stamps (50-yr) \$ 3.00

QCWA Cap with Logo \$ 5.00

QCWA Chapter Banner \$200.00

QCWA Decals \$ 1.00

QCWA QSL Cards (Please see ad elsewhere)

\$ _____

\$ _____

\$ _____

\$ _____

\$ _____

Total \$ _____

Ship to:

Name Call QCWA No.

No. and Street

City State Zip code

Sorry, but we can no longer accept orders charged to credit cards.
Please mail your check to:

QCWA, Inc.
159 E. 16th Ave.
Eugene, OR 97401-4017

Phone (inquiries only, no orders): 503-683-0987, fax 503-683-4181

Certificates

MEMBERSHIP CERTIFICATES numbered in serial order are issued to each member. Numbers are not re-issued except to the same member to whom they were first issued.

QCWA GOLD CERTIFICATES celebrate the 50th anniversary of licensing. Issued without charge to eligible members upon proof of year of first license.

GOLDEN CERTIFICATES are issued in five year increments—55, 60, 65, 70, 75 year Certificates free of charge to eligible members.

50-YEAR CONTINUOUS LICENSING Gold certificate available to eligible members. Requires submission of proof of continuous licensing. There is a \$5.00 fee. Applications available from QCWA Headquarters.

QCWA CENTURY CLUB CERTIFICATE is issued to QCWA members whose age, when added to their number of years as a QCWA member totals 100 or more. No charge for the Certificate.

MERITORIOUS AWARD is issued by Headquarters, upon request of any active QCWA Chapter. One such award is authorized for each Chapter each year. The award may be given to recognize unusual dedication to QCWA or Amateur Radio. No charge for the award.

Operating Awards

QCWA Operating Award Certificates are issued to QCWA members by the activities manager. Proof of eligibility is required.

QCWA WORKED 50 STATES awards are issued to QCWA members who have contacted members in each state of the Union.

QCWA WORKED 100 MEMBERS awards are issued to QCWA members who have contacted at least 100 QCWA members.

QCWA WORKED 60 CHAPTERS awards are issued to QCWA members who have contacted members of 60 chapters.

QCWA WORKED 500 MEMBERS awards are issued to QCWA members who have contacted 500 QCWA members.

Silver Belles

By: Carol King, K5CPZ, YL Editor, P. O. Box 73, Oklahoma City, OK 73101

Met Milly Wise, one of QCWA's newly elected Board members!

On October 15, 1918, Milly was born in Seattle, Washington. Her family remained in Seattle for about two years while her father worked in the Navy shipyards during World War I.

After World War I Armistice, the family moved to the Minneapolis, Minnesota area. They chose that part of the country so they could be close to Milly's mother's relatives.

When Milly was 12 years of age, the family moved to Kansas City, Missouri, the home of Milly's father. While Milly was in high school in Kansas City, she worked at a boarding house for truck drivers where she met her future husband, Dale Aldrich.

Dale became employed as a truck driver during a summer break from the college he was attending in Cincinnati, Ohio. When Dale met Milly, she stole his heart! Consequently, he knew that his heart would no longer be in his college work in Cincinnati, so he continued his truck driving in order that he could go back and forth to Kansas City. According to Milly, their romance was "love at first sight."

After an eight month courtship, Milly and Dale were married on April 17, 1936. To put it mildly, their marriage caused a big celebration!

Milly and Dale resided in St. Louis. In some instances, absence can make the heart grow fonder, but Milly and Dale wanted to be together when the truck driving duties presented a cause to wander. Because they were very resourceful young people in love, they found a very practical solution for their situation.

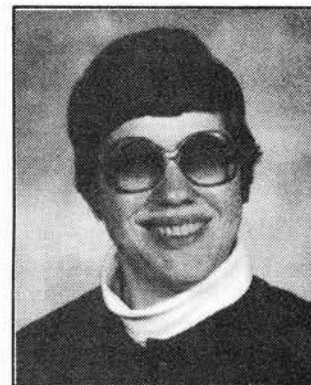
"In order for me to travel in the truck with Dale, I was required to obtain a Chauffeur's License to drive an 18 wheeler truck. Insurance inspectors were very strict in those days, and if they pulled a truck over, all the people in the truck had to be licensed. The loads were always tarp-covered; they had to be tied down. Tires from Ohio went to St. Louis, and soap was delivered from St. Louis to Ohio."

After four years of "trucking" Milly and Dale became proud parents of a five pound girl named June. As the name might imply, June was named after the month in which she was to have been born, but she arrived late. Although she was born on July 5, they decided to keep the name that was originally chosen for her. June's arrival was an important factor in influencing the termination of their truck driving career, and Dale went to work for William Volker & Company, a furniture company.

Two years later Milly and Dale added a new family member. This time they were presented with a son, Gene.

After Gene was born, Dale suddenly renewed his desire to become a ham radio operator. When Dale was a teenager, he had experimented with spark gap transmitters.

Soon, he received the call sign of W0LIR. Then he talked Milly into obtaining her ham license. She began this venture by learning CW, and in no time at all, she was copying CW at a speed of 35 words per minute. She continued studying for her license, but World War II broke out which put an abrupt end to ham radio licenses.



During the War, Milly was asked to train the GI's by teaching them CW at Fort Leavenworth, Kansas.

One night she was listening to the short wave band when a voice with a Japanese accent came on and announced that they had 25 messages from prisoners of war in Japan. The announcement was then made that the messages would be read only once, with the addresses and telephone numbers given. She copied every one she could. She got on the telephone to mothers, sweethearts, and wives, who told her that they hadn't heard from their GI's for three or four years in some cases. After Japan surrendered, she kept listening on the short wave and the prisoners of war frequencies from Germany opened up. She did the same listening and getting the messages. When Germany gave up, there were no more prisoner of war messages from Japan or Germany.

After the War, Dale was given the opportunity to become vice-president of the William & Volker Company. He accepted this position, and they arrived in El Paso in January of 1948 where Dale opened a branch of the William Volker & Company.

Milly resumed her ham radio studies. She became licensed in August of 1948, earning the call sign of W5OVH. Soon, she became very active in nets.



Milly Wise, W5OVH, at her rig when she was first licensed in 1948. Photo courtesy W5OVH.

Scouting became a very high priority in Milly's life. She became active in the program for Cub Scouts, became a den mother, and served 15 years as a scout leader.

In 1949, Dale applied for a "five" call. He was issued the call sign of W5PCO.

In 1957, when Milly was 39 years of age, she gave birth to a baby girl, Julie. In October of 1958, when Julie was about a year and a half old, Dale became a Silent Key.

After Dale died, Milly joined the El Paso Amateur Radio Club, W5ES, and she helped start El Paso's Sun City Amateur Radio Club, K5WPH.

During the year of 1962, Milly met Larry Wise, K5UYH, at a W5ES picnic. She not only met the man who became her second husband at that picnic, but also received phonetics for her call sign, "old vicious hen". After some kidding around by George Nail, K5GSA, who introduced Milly and Larry, a discussion about her call's suffix occurred, and the people involved finally agreed on "old vicious hen".

Milly and Larry were married at March Air Force Base, California in August of 1962. When they were married, Larry had two sons and Milly had three children. Because Larry had been in the Air Force for 18 years, he told Milly when they married that they would never have to go overseas. After they had been married approximately four months, Larry came home and asked her if she would like to spend a honeymoon in Spain.

Milly stated, "There was no radioing in Spain for non-Spaniards. Spaniards had to pay one dollar a month per watt of power under Franco's regime."

At the age of 45 years, Milly gave Larry a son, Jon, who was born in Spain on October 16, 1963.

Milly and the family returned to the States in 1965, where Larry was assigned to Offutt Air Force Base. While they resided in Omaha, Milly was NCS of the Transcon Net and the Air Force Net. She was also a very active member of Air Force Mars.

Larry joined the Silent Key ranks on July 29, 1994.

Larry's son, Don, WD5DWR, resides in South Africa. Larry's son, Dan, also lives in South Africa and, like Don, is a pilot. Milly's son, Gene, was K5SEY, but he forgot to renew when he was overseas in the Air Force.

In addition to Milly's previously mentioned ham radio activities, she belongs to QCWW, ARES, YLRL, RACES, the two El Paso clubs, 10-10 International, the West Texas Repeater Association, the Society of Wireless Pioneers, the Old Old Timers Club, QCWA and she is a life member of ARRL. In addition, Milly has the distinction of being the first and the only ARRL Section Manager of the West Texas section of the West Gulf Division. She is now serving her fourth term as Section Manager, and she has brought many new clubs into the section.

When Milly became eligible to join QCWA in 1972, she helped charter the El Paso chapter, Chapter 64. Assisting with this project were Howard Brokate, W5RO, and Jerry McTernan, W5YV, both of whom are now Silent Keys.

Milly has been president, secretary, and treasurer of the El Paso Amateur Radio Club; She has been the editor of the two El Paso radio club publications; she served as a charter member, president, and the secretary of the El Paso's Chapter 64 of QCWA; she is a charter member of the 10-10 Bar-X Chapter of 10-10 International; she is a charter member of the Sun City Amateur Radio Club; she has been Assistant Director of the West Gulf Division under terms of six directors; she was past chairman of the West Gulf Division Convention; she is also an Official Bulletin Station. Her leadership has been supported by other section officials in every district, and she has brought League prominence into her section.



Milly held the office of President of Chapter 64, El Paso. In the background, Manny Gonzales, W2BFI. Photo courtesy W3OVH.

In addition to her ham radio activities, Milly was Lioness of the Year in El Paso and she helped organize many Lions Club activities. Also, Milly enjoys archaeology, embroidering, painting, and artex painting which is embroidery painting.

As a QCWA Board member, Milly is interested in promoting organizational growth especially among those individuals who have been hams for 30 years, for 40 years, or for even 50 plus years. She feels that these hams could play a very valuable role in the areas of "policing" or cleaning up the air waves, aiding new comers in such facets of amateur radio as operating procedures, and providing guidance along with wisdom to younger hams. She feels that younger hams have a good technical knowledge of radio theory, but they often could profit from learning by listening, especially where operating procedure is concerned. She would like an Elmer program to be established among QCWA members. She is concerned about the youth in our country, and she feels that our QCWA members could help the younger hams in many areas of life.

Milly's organizational skills, her active leadership roles, her enthusiasm, her limitless supply of energy, and her dedication to QCWA are certainly invaluable qualities. We wish her well, and she will no doubt have a great deal to contribute as a QCWA Board member.

73 es 88 de Carol, K5CPZ.

Ham's Health

By: Dr. Dub George, WA5BFF, 4100 Big Bend, Port Arthur, TX 77642, Home Phone: (409) 982-4442, Office Phone: (409) 983-5145, Fax: (409) 983-6519, Internet: dubgeorge@delphi.com.

A few weeks ago at an informal Saturday morning ham breakfast group one of the regulars commented that he had recently been told that he had diabetes and would like to know more about it. Considering that approximately 14,000,000 people in the US have the problem and only half of them know that they have it, I decided to talk about diabetes in this issue.

Normal Glucose Metabolism

Shortly after a meal the carbohydrates are broken down into a sugar (glucose) that enters the blood stream and causes the concentration of sugar in the blood begins to rise. The body monitors this rise and signals the pancreas to release insulin. The insulin attaches to insulin-specific receptor sites on cells throughout the body, triggering the process of transporting the sugar molecules into the cell where they can be used for energy.

Definition

The disease known as diabetes mellitus (diabetes for short) occurs when there is an inadequate amount of insulin present in the body to keep the glucose or blood sugar at a desirable level.

There are several recognized forms or types of diabetes. We will begin by looking at each of them.

Type I

In this form of diabetes there is a total absence of insulin. It has been known as "insulin-dependent diabetes" because the individual must take insulin injections to live. It has also been called "juvenile-onset diabetes" because it usually begins in childhood. Approximately 10% of diabetics have this form. It usually begins with the sudden appearance of increased thirst, increased urination and rapid weight loss in spite of an increased appetite. It is thought to be caused by an acute viral infection of the pancreas that triggers the individual's own immune system to attack the cells in the pancreas that make insulin. There appears to be a genetic relationship that causes an individual to be susceptible to having this chain of events end in the clinical picture that we recognize as Type I diabetes.

Type II

In this form of diabetes there is insulin present, but the body is unable to use it properly. While a person with Type II diabetes does not have to take insulin injections to stay alive, extra insulin may be given to control it. It has therefore been called "non-insulin dependent diabetes". This common form of diabetes usually begins in adult life, leading to the term "maturity onset" diabetes. Individuals with Type II diabetes are usually overweight, over age 40 and have a family history of diabetes. The onset of the disease is usually much less dramatic than in Type I diabetes. Although it may also cause increased

thirst and urination, fatigue or numbness and burning of the feet it is often discovered as an elevated blood sugar on routine laboratory testing.

Miscellaneous Types of Diabetes

Diabetes may be caused by pancreatic damage from repeated bouts of pancreatitis or may develop when large doses of cortisone-type steroids must be given to treat some other medical problem.

A small group of women (1-2%) develop diabetes during pregnancy. This is known as gestational diabetes. Although most of these women regain their glucose tolerance after delivery, approximately 30% will develop diabetes within 5 to 10 years.

Treatment

The cornerstone of diabetes therapy is diet. The individual with Type II diabetes is usually overweight and weight reduction can lead to marked improvement. The individual may actually experience a return of normal glucose tolerance if significant weight loss is achieved.

The dietary treatment of both Type I and Type II diabetes should consist of:

- Normalization of weight if obesity is present.
- Eating less fat.
- Eating more complex carbohydrates (starches and breads), especially those high in fiber.
- Eating less sugar.
- Using less salt.
- Using alcohol in moderation, if at all.

Insulin-dependent diabetics should pay particular attention to eating at regular times. If an individual who is taking insulin injections delays a meal for an hour or so they may experience undesirable drops in blood sugar.

Insulin

The Type I or insulin dependent diabetic must receive daily injections of insulin or their blood sugar will rise sharply. This causes large amounts of sugar to be spilled in the urine dragging with it large volumes of water, resulting in dehydration. The inability of glucose to be taken into cells prevents it from being used for energy. The body is then forced to burn fat as an alternate energy source. In burning this fat, large amounts of acid-containing compounds are produced that lead to a systemic acidosis. If this is not promptly treated the patient develops a condition known as diabetic coma that can rapidly be fatal.

Until recently the only commercial source of insulin was from pork or beef pancreas glands. Now insulin chemically identical to human insulin can be commercially produced in large amounts.

Several forms of insulin are used. In its simplest form it is called Regular Insulin, a short acting insulin that lasts for approximately four hours after injection.

There are several forms of long-acting insulins that have been modified to prolong their action for 12 to 24 hours. Lente and NPH are examples of these long acting insulins.

Recently combinations of long-acting and short-acting insulins (70/30) or (50/50) have become commercially available.

Most diabetics who require insulin therapy are treated with two injections a day of a mixture of short-acting and long-acting insulin.

Oral Hypoglycemic Drugs

Those diabetics who do not have Type I (insulin-dependent) diabetes may benefit from the use of oral medications that lower blood sugar.

These drugs improve the release of the patient's own insulin and also help to make it more effective. They are of no use in the Type I diabetic who no longer produces any insulin.

The use of these drugs in a Type II diabetic who cannot be controlled with diet alone may lead to adequate control. These drugs are potent enough to produce hypoglycemia (low blood sugar) if meals are delayed or missed.

The following oral hypoglycemic drugs are available in the United States: Orinase (tolbutamide), Dymelor (acetohexamide), Diabenese (chlorpropamide), Tolinase (tolazamide), Glucotrol (glipizide), and DiaBeta-Micronase-Glynase (glyburide).

Physical Activity

Significant reductions in blood sugar can be achieved by physical activity. Regular exercise can reduce the amount of insulin or medication that must be used. Unfortunately, sporadic exercise can cause unexpected lowering of the sugar to levels that can be troublesome.

Complications

Those with diabetes are at increased risk for: Heart attack, stroke, eye problems that can lead to blindness, kidney problems that can lead to kidney failure, frequent infections, and sexual problems.

These problems are caused by damage to large and small blood vessels, damage to nerves and decreased ability to fight infection.

All of these problems tend to be more severe in long standing disease. Heart attack and stroke are more likely to occur in the those with elevated cholesterol and triglycerides and in those with high blood pressure.

The problems with the eye are related to small blood vessel disease in the retina. Diabetics who have had the disease for more than five years should be seen annually by an ophthalmologist who is trained to recognize these changes in the retina and see that they receive appropriate laser treatment when it is indicated.

Individuals may have damage to the nerves in the feet that reduces their ability to feel pain or discomfort from minor

injuries. This can lead to the development of poorly healing ulcerations of the feet. If these are not treated promptly and vigorously the loss of a limb may result. *Meticulous foot care, avoiding ill-fitting shoes, prompt attention to minor injuries and regular visits to a podiatrist can prevent the needless loss of a limb.*

Goals of Therapy

It has long been thought that keeping the blood sugar as close to normal levels as possible would reduce the number and severity of complications in the diabetic. Recent studies have proven this, especially in pregnancy and Type I diabetes.

Normal values for the blood sugar are fasting levels of under 115 mg/Dl and levels 2 hours after a meal under 140 mg/Dl. Such levels are often difficult to obtain in the diabetic and values of below 140 mg/Dl fasting and under 200 mg/Dl 2 hours after a meal are usually considered acceptable.

It may be difficult to obtain such values in all individuals, but with careful attention to diet, medication and activity it can usually be achieved.

Glucose Monitoring

In the past few years technology has developed to the point that relatively inexpensive instruments are widely available for home monitoring of the blood sugar. This allows the patient to closely follow their blood sugar several times a day and adjust their insulin dosage accordingly.

The effects of minor dietary indiscretions or increases in physical activity can easily be seen. The use of home glucose monitoring allows for much better control than urine glucose testing that was popular for many years.

Hypoglycemia

If excess insulin is present the blood sugar drops to abnormally low levels. The body usually promptly responds to this drop with an outpouring of adrenaline. This causes the heart rate to increase and makes the individual "nervous and shaky". Sweating usually occurs. The alert individual recognizes these early signs of hypoglycemia and promptly takes fruit juice, regular soda (not sugar-free), hard candies or other source of glucose. If these early symptoms are ignored or overlooked, confusion and somnolence soon follows, leading to frank unconsciousness (hypoglycemic coma). Such an episode may be brought on by skipping, delaying or only partly finishing a meal. It may also be caused by an unexpected amount of exercise.

It is important for the diabetic to know the signs and symptoms of low sugar and to plan ahead for its management. Family members should also be taught to deal with it. If the patient develops significant hypoglycemia a family member may be taught to administer an injection of the hormone glucagon which will bring the blood sugar back to normal levels within 10 to 15 minutes. This can prevent the need for an expensive ambulance trip to the hospital emergency department for an injection of intravenous glucose.

73 de Dr. Dub George, WA5BFF.

QCWA JOURNAL Reviews: The Kenwood TS 850 Transceiver

By: Lew McCoy, W1ICP, 1500 Idaho, Silver City, NM 88061.

When one has been around this hobby as long as I have, one tends to get jaded or blasé. I am in a rather remarkable position in amateur radio in that I have been Product Review Editor of *QST* and for the last 15 years or so, Technical Editor of *CQ*. Because of this, I get to review many pieces of new gear. I haven't had to buy a new rig in many years because of this position. In any case, I finally decided that rather than switching gear so much, I would buy a new transceiver. After much talking to other hams, I found that generally, the Kenwood TS 850 transceiver seem to get the most votes—so I took the plunge. And frankly, I have been very happy.

The TS 850 covers 160 through 10 meters on transmit and general coverage on receive. The transmitter has a full 100 watts output on all bands. As to bells and whistles, there are literally scores of them. It has 100 transmit and receive memories. There are dual VFOs for working split and both a receive and transmit offset, if needed. I work both CW and phone and one of the features I really like is the DRU (Digital Recording Unit). There's a front panel control unit whereby three messages can be recorded, either voice or CW, and then transmitted as needed. I used this system in a recent DX contest and it certainly saved my voice.

There are two '850s available, one with a built in antenna tuner and one without—the difference is about \$200. The one I bought has the tuner—you probably ask why because most of you know I always use a regular Transmatch. The answer is quite simple. When driving an amplifier there is always the problem of matching the grid circuit—this tuner takes care of the problem very well.

The standard filters supplied go from very broad down to 2.3 kHz. There are two different IFs one at 8 MHz and another at 455 kHz. I also added the 455 kHz 500 cycle filter for CW work. There is a 200 hertz unit available but I passed on that—my ears are still good enough for fine filtering. For SSB, the standard filter at both IFs is 2.1 kHz.

Still another feature is passband adjustments which provides very excellent selectivity—even improving on the dual 2.1 kHz filters. This is controlled by a dual knob whereby one knob cuts down on the high side and the other on the low side. Believe me, this really works on cutting out nearby strong signals. Additionally, there is a very good "NOTCH" filter controlled from the front panel.

Audio output has a tone control and I found that the audio with the built-in speaker is excellent. Also, the reports on the transmitted audio were all outstanding.

There are two noise blankers available—one for normal noise (ignition, power line, etc.) and another for over the horizon radar (which I don't find to be too bad a problem here in New Mexico).

Oh yes, there is a built in keyer which can be adjusted as to speed and weight. I used a scope to look at the make and break keying characteristics and they are excellent.

The main tuning knob is very smooth in action. I know that "smooth" is just an adjective which is hard to describe. I always remember that hullabaloo about HI FI and some of the descriptions applied by the advertisers—such as, "Presence", "Full Body" (!?), "Tonal Depth" and on and on. Such terms really don't mean anything so trying to describe a tuning control as "smooth" also has an advertising smack to it. So let me try to be more precise. The tuning has no real drag but on the other hand, if one "spins" the knob it doesn't spin more than a half a turn or so. Soooo, my best description is smooth. In addition, there is front panel button labeled "FINE" which, when pressed, provides one kilohertz fine tuning for one knob revolution—pretty neat?

The instruction manual is an absolute joy to use. It is extremely detailed and well illustrated. In fact, if I were judging on a scale of 1 to 10—I would have to give the book a 15—at least.

I didn't mention warm up time or drift—those days are

long gone as far as modern equipment is concerned. In writing this for the *JOURNAL*, I realize that most of our readers are very familiar with terms like drift and stability. I remember very clearly that George Grammer, W1DF, always had a hang up about oscillator stability and wrote many articles about such things. Also, By Goodman, W1DX, was a real nut on selectivity—pressing receivers and IFs to the limit on CW. If anyone established early

principles on those subjects it was those two. Here we have a receiver that one doesn't even bother to talk about stability. Stability to the Nth degree is assumed just as selectivity is.

It surely must be obvious that I think very highly of the unit and would recommend it to any of you. I had heard a few complaints that the '850 would not put out a full 100 watts on all bands—namely 10 meters. Not so. Kenwood is careful to mention the constraints of proper measurement techniques regarding being sure to use a 50 Ω flat load for doing measurements. That's it—I am not mentioning price because depending on where you are and who you are dealing with—the price varies considerably. I just mentioned no constraints, but we do have advertisers of equipment so it wouldn't hurt to give them a shot at your plans.

By the way—do you members want more reviews of equipment and antennas in the *JOURNAL*? Let Editor Joe Lynch, N6CL, or myself know—we will be happy to oblige. It should be pointed out to the members that while we do have advertisers—we have absolutely no constraints about what we can or cannot say in a review.

73 de Lew McCoy, W1ICP.



Chapter Reports

Note: Chapter reports are in Chapter numerical order.

CHAPTER 1, CLEVELAND: There were 76 QCWA members, spouses, and friends attending our Fall luncheon-meeting. Chapter 1 apparently is the most active and prestigious chapter in QCWA. Our thanks to Andy Doles, W8UDG, for his diligent and persistent devotion to our luncheon-meeting preparations.

The meeting itself was devoted mainly to honors and awards. Chairman Bernie Hindricksen, W2NTB, was assisted by John Misic, W8VRJ Paul Cornell, W8EFW, and Rocky Zimmerman, W8UYN, in distributing the certificates and door prizes.

This year's Amateur of the Year for QCWA, Chapter 1 was Joseph Zelle, W8FAZ, in appreciation for years of dedicated service to his fellow amateurs. He had been similarly honored at the annual dinner of the Cleveland Hain Association.

The Cleveland Chapter No. 1 1994 President's Award went to: W. W. Waite, W8GDQ; Bill Knaus, WA8NPX; Steve Martinovich, W8NZD; and Rocky Zimmerman, W8UYN.

The QCWA Meritorious Award was presented to Robert Briggs, W8MMC.

QCWA Century Club Certificates were received by Earl Carter, W4EU, and Ralph Turner, W8HXC.

QCWA Golden Certificate - 55 Years was awarded to Andy Doles, W8UDG; and Kirk Sanderson, W8WNA.

QCWA Golden Certificate - 60 Years was received by Albert Ondracek, W8LJI; Robert Manning, W8LXA; Michael Matijasic, W8LZB; David Blosser, W8NML; and Robert Briggs, W8MMC.

A QCWA Golden Certificate - 65 Years was presented to Robert Blair, K8NYZ.

Finally the Cleveland Chapter No. 1 Assistance Certificate went to the following: Joseph Schleimer, WA8CBP; Paul Cornell, W8EFW; Andrew Doles, W8UDG; Bernard Hendricksen, W2NTB; John Misic, W8VRJ; John Brant, W8WAB; Jack Goldfarb, W8WGO; Helga Hendricksen, wife of W2NTB; Betty Brant, wife of W8WAB; and Heidi Zimmerman, wife of W8UYN.

Welcome to the following new QCWA members: Victor E. Andrejko, K8YYK, Clarence Berkey, WB8TRJ, and W8ICS, Raymond Kacprzak.

We close with the timeworn cliché, "A great time was had by all." See you in January and again everyone in QCWA is invited to attend our luncheon-meeting for an eye-ball QSO!

Respectfully submitted, Joseph Zelle, W8FAZ.



Chapter 10 President R. J. Beach, W8NBJ, presents the 50-year certificate to Paul Spooner, W8YMI. Photo courtesy W8FSZ.

CHAPTER 10, MICHIGAN: On August 17, 1994, 31 QCWA members and their guests met at Kenwood Park in Cadillac, Michigan,

for our annual picnic. It is amazing the variety of good food with no planning.

After a fine dinner, we had a short business meeting. Pat, K8TSO, was reimbursed for the coffee and given a vote of thanks for getting the park early and having the coffee made.

A certificate of Appreciation was given to Dick, K8HBG, for his efforts in running the early birds. President, R. J. Beach, W8NBJ, thanked all for coming. All returned home safe and sound.

Respectfully submitted, Curring L. Skutt, W8FSZ, Secretary-Treasurer.

CHAPTER 12, SOUTHEAST FLORIDA: The August meeting of Southeast Florida Chapter 12 was held at Denny's Restaurant, 7411 NW 36th St. near Miami International Airport. Our meetings are held on the third Saturday of each month at 12 Noon. QCWA members and visitors are always welcome.

We had 21 members and guests present. Our guest speaker was Joe Schmidt, W4NKJ, who gave a very interesting talk on the operation of the Miami Hurricane Center and Hurricane Preparedness. An amateur radio station is located in the center on the 6th floor in a building in Coral Gables. The center will be moving in the near future into a new facility near Miami International University. The new facility will be Hurricane proof as the present center had considerable damage during Hurricane Andrew.

Best wishes for a speedy recovery to two of our members Marion Rauch, WB4RFB, and Forrest Bahr, K4SSE, who are recovering from open heart surgery.

Our President George Henning, WB4JFA, announced we still need a person to fill the position of Corresponding Secretary that was left vacant by Herb Bernard, W4JXA, who became a silent key. No volunteers came forward. Congratulations to Art Rauch, W4VZ, and Marion Rauch, WB4RFB, who celebrated their 43 wedding anniversary this month.

The October meeting was held at the same Denny's Restaurant. In fact, all our meetings are held the third Saturday at 12 noon. QCWA members and visitors are always welcome.

We had 18 members and guests present. The president, George Henning, WB4JFA, appointed a nominating committee for the 1995 chapter officers consisting of Cliff Seal, K4HQH, and Andy Clark, W4IYT. Elections are to be held at our December meeting.

Plans are being made for our annual Christmas Party meeting to be held on December 17 at the home of Andy and Betty Clark. Several of our regular members were missing this month as they were on vacation.

Sid Wolfeld, KJ4AS, has moved to Lake Worth. I saw Sid at the West Palm Beach hamfest and he send greetings to all. He still wants to continue his chapter membership and will attend meetings whenever he can. Good luck to Sid and his wife in their new home.

Andy Clark, W4IYT, is taping another TV show about the Waterway Net. The show is to be shown on local cable TV.

Respectfully submitted, Art Rauch, W4VZ.

CHAPTER 14, SAN DIEGO: The San Diego QCWA Chapter 14 held their fall brunch on September 25th this year. A total of 28 attended, a little down from our usual regulars.

The group was saddened to learn that F. K. "Bernie" Bernardini, K6UV, passed away unexpectedly on August 31, 1994. Bernie was one of the early members of Chapter 14, always had some jokes for our meetings and will be sorely missed by the San Diego

hams. A donation was made to the QCWA Scholarship Fund in Bernie's name by our Chapter.

More bad news. Earnest Rubino, WA6RPP, reports that his wife has passed away. Our sympathies are with you, Earnest.

We were pleased to have one of our most senior members attend our brunch meeting: Meta Brazell, WA6BNS, who is 94, came from Lakeside to be with us. She brightened our day!

George Mitchell, K6ZE, brought a rabbit out of the hat for a program when our secretary, K6CD, who was to give a HANDI-HAM program, could not attend. George enlisted Harley Gabrielson, K6DS, to present the VEC program of the San Diego Amateur Radio Council. Harley has been the VEC for SANDARC since the program was started. He told us of the VEC program, its history and operation. SANDARC picks up all costs for the VE testing so that applicants need not pay a fee for the service.

John Wieting, K6QM, who arranges for the brunch meetings, says our Winter Brunch will be in January or early February.

Respectfully submitted, Joe Saugier, K6CD, Secretary.

CHAPTER 16, BARRY M. GOLDWATER ARIZONA: Forty-two members and guests attended our annual meeting and lunch on Saturday, October 15th at the Horny Toad Restaurant in Cave Creek, AZ. President Gerry Higgins, W9INP opened the meeting after lunch and had everyone introduce themselves. Chapter reports were printed in the Fall Newsletter.

There being no other business before the group, Gerry called the newly elected officers to come front and center for installation into office. John Gray, K7GFZ is the new president, Ralph Barr, W0DNO is the new vice president, and Cliff Bruce, W7ER will continue as Secretary-Treasurer. The gavel was turned over to John. Awards were then issued to the old officers, each receiving a Certificate of Appreciation from the Chapter and Gerry, W9INP, Ray Porter, K7AA, and Cliff, W7ER were given a round of applause for their service to the Chapter during the past two years.

Our speaker for the day was retired Trans World airline Captain William "Bill" Judd who now lives in Carefree, AZ. He gave an exciting talk on his New York to Paris, France Solo Flight in 1956, the first one since Lindbergh did it in 1927. Bill then continued the flight to Cairo, Egypt where he was stationed with TWA. Bill also told of his under-sea photography in the Red Sea, some of which was used in the Captain Midnight TV Series of that time and of some of his search and rescue work done for the Egyptian Government in the Sahara Desert. TWA removed the Cairo based crew members back to the USA in 1957 as a result of the Arab-Israeli war that year. Bill then moved to Bermuda and continued his flying and underwater photography.

The meeting was concluded with the presentation of a QCWA Meritorious Award to Cliff Bruce, W7ER for service to QCWA and the Chapter over the past years. Door prizes were then drawn and the meeting adjourned at 2:00 PM.

Our next event will be the combined QCWA-SOWP luncheon meeting to be held on December 10th at the Safari Resort in Scottsdale, AZ.

Respectfully submitted, Cliff Bruce, W7ER, Secretary.

CHAPTER 17, ALLENTOWN-BETHLEHEM-EASTON: This, the annual meeting, was held at Denny's Restaurant, Center Valley, which was attended by 34 people, including 17 members, and 17 spouses and guests. This was the first annual meeting that a quorum attended! Minutes of the August meeting were accepted as printed, thanks to motion by Bob, K3GOX and seconded by Don, W3LR and carried.

Everyone joined in wishing happy birthday to Frank, W3BRU, and Andy, E3ECT, who were present. Their big day was on the 17th. Other members who celebrated birthdays in September were Al, W3IKQ, and Joe, W3JD.

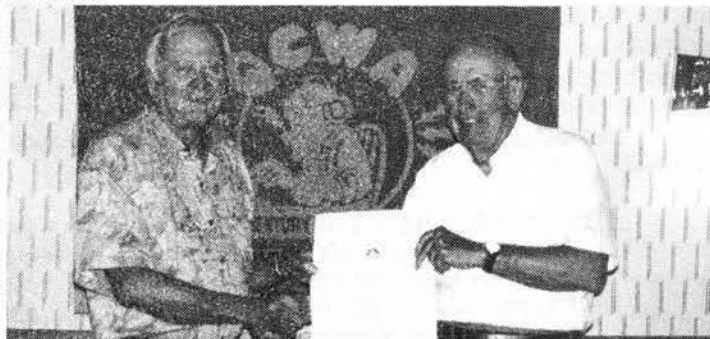
Suggestion by Bob, K3GOX, to have the next meeting at the Barn Restaurant brought a motion by Bill, K3ANS, and seconded by Ken, W3EGY, to do so; the motion carried.

Bob, K3GOX, suggested that a Chapter 17 HF net be held on Sundays at Noon on 3990 kHz. Bob made it a Motion, which was seconded by Don, W3LR; The motion was carried.

President Elmer, W3FVT, reminded the group that next meeting will be the scheduled nominations and elections.

Treasurer, Ray, W3TDF, reported an opening and closing balance of \$341.03.

Respectfully submitted, Ray Bilger, W3TDF, Secretary-Treasurer.



Henson Miller, W0HNO, left, receives the QCWA award for 52 years in Amateur Radio from Chapter 19 President Bill Graves, W0QZZ.

Photo courtesy W0RTV.

CHAPTER 19, MISSOURI: The Missouri Chapter 19 meets on the second Saturday of every month for lunch at a local restaurant in the St. Louis area. Current officers are our chairman Bill Graves, W0QZZ, vice-chairman Roger Volk, K0GOB. and secretary-treasurer Don Ward, W0RTV. The board of trustees consists of the above and three at large trustees. They are Bob Bloemker, K0WEX, Carl Widell, KD0IR and Charles Guenther, NI0C.

The monthly get-together consists in partaking of a noon meal which lasts for about 45 minutes. There is a lot of camaraderie, conversation, and eating but eventually the meal portion of the monthly assembly comes to a halt and the meetings begins.

The meetings have consisted of the secretary's report, the treasurer's report, and the normal injection of input from all members on known hamfests, gossip, and general interest subjects of an amateur nature. Chairman Bill Graves, W0QZZ, has introduced a swap feature into the meeting for members to introduce equipment for exchange between members. Ray Widaman, W0DFT, is our resident representative to the Sunday QCWA net who monthly reports on the activities of the international net. Carl Widell, KD0IR, conducts the local chapter on-the-air meeting on 2 meters on Wednesdays, 7:00 p.m. on 147.150 MHz.

Every meeting has a program at the end which in the past has consisted of different presentations. A very popular type of program has been the individual experiences by members of their amateur and life experiences. Videos and technical presentations are other forms of programs for members at our monthly meetings.

In August, Henson Miller, W0HNO, reported on his reunion in Corpus Christ, Texas at the christening of a new minesweeper replacing his old WW II ship. His speech and recollections were most fascinating and entertaining. In September, Lew Gordon, K4VX, ARRL Midwest Division Director, gave a presentation on the current ARRL activities. At the end of his presentation, Lew presented John Ellison, W0ERZ, with a plaque honoring John for his 60 years as an ARRL member. In October, Win Kratz, KB0KK, gave a presentation with a lap top computer showing a satellite tracking program, a contest

recording program and other capabilities of amateur related computer uses.

Respectfully submitted, Don Ward, WØRTV, Secretary.

CHAPTER 21, CANTON, OHIO: Fifty-seven members and guests gathered at the Atwood Lake Lodge for the third quarter dinner and biennial election of officers on Saturday, August 20, 1994

Following a report from the Nominating Committee, the following were elected by a unanimous ballot: President, Joe Vignos, W1FEZ; Vice-President, Ed Clinger, WA8DRT; and Secretary-Treasurer, Joe Horvath, W8KDM.

President Mel reported briefly on his recent trip to Southeast Asia. He mentioned that he will preside over the installation of the new officers and also make an in-depth presentation of the Asian trip at the November 19 dinner.

Respectfully submitted, Myron Koyle, N8DHT, Secretary-Treasurer.

CHAPTER 28, CENTRAL NEW YORK: A QCWA table was set up at the BARA Hamfest, Binghamton, NY, held on September 30, 1994. Several applications were handed out and sales made.

The Chapter held its fall lunch and meeting at the A1 Restaurant in Dryden, NY, on November 4, 1994. A good meal and fellowship was enjoyed by 13 members and guests.

The fall meeting was called to order by President Bill Valky, K23MFB, after the lunch. There were seven members present. Declining membership and the QCWA table at the local hamfest were discussed. Several members are off on their annual migration to the south. We wish them well and are looking forward to their return in the spring.

Respectfully submitted, Merle Rigby, K2AOV, Secretary-Treasurer.

CHAPTER 29, FINGER LAKES: In a departure from our traditional monthly noon luncheons, the election meeting was held October 28 at 7 PM at Weber's Restaurant, 820 Danforth St., Syracuse, NY. Due to the good turnout, the chapter may hold meetings in the evening on some other last Fridays of the month, and will almost certainly do so for business meetings such as the October one. Elected President was Joseph Molinaro, W2FUU, Vice-President Frank Sladky, W2YEU, Secretary Frederick Adsit, NY2V, and Treasurer Philip Noble, W2UKA. For the coming year it was decided to split the secretarial and treasurer functions as allowed by the QCWA's national constitution. This will both ease the duties of each, while requiring close cooperation and frequent communication among all the officers. We are confident this will work out very nicely!

QCWA members present were Albert R. Clark, N2EUW, Frederick V. Adsit, NY2V, James M. Mozley, W2BCH, and his wife, Betty, Fran H. Thisse, W2BJI, and his wife Irene, J37ZQ, William E. Good, W2CVI, Joseph P. Molinaro, W2FUU, Philip C. Noble W2UKA, Frank A. Sladky, W2YEU, and his wife Gerry, and Edward J. Gersten, WB2MWW. Guests present were Jo Schmitt, widow of Silent Key member Ray Schmitt, W2ABV, and John W. Soergel, WA2DGC, and his wife Shirley.

Charles W. Floring, W2AK, bid us all adieu and headed for Englewood, FL shortly after the September 30th meeting. At this October meeting Fran, W2BJI, and Irene Thisse, J37ZQ, indicated they would again see us in the Spring. Ye secretary assumes they are headed for Grenada. Fran, W2BJI, and his wife have been vacationing with ham gear in tow for 25 years ("Cuz" indicated he retired in 1978 and started snow birding in *real* earnest!). Here are the calls he has held while making sure the ham station is packed in four separate suitcases: W8BJI, W2BJI, PJ3CC, VP2AJI, VP2DJI, VP2GJI, ZLØAJI, W2BJI/VP2A, W2BOI/9Y4, W2BOI/TI2, V47KJI, W2BJI/TI8, J3AAC,

and J37XC. Cuz as of May 1994 had been a ham for 65 years, and I *think* he said they were on their way back to Grenada. Cuz is battling lung cancer, so far with success. How he has arranged all his vacation/DXpeditions and the gear he has used should be the subject of a separate article.

Getting back to the separate suitcases... Fran, W2BJI, once packed his entire station in one suitcase (try it sometime!). He soon learned, in order to arrive with at least *some* of his station, he should split the gear into separate bags! That one in a single suitcase was not of the latest compact design—how he packed it was the feature of an entire local ham meeting about 20 years ago!

Goals for the coming year include issuing a newsletter every two months, maintaining publicity in the local newspaper, reviewing and updating our charter, visiting shut-in members, assisting Silent Key families with disposition of estate ham equipment, encouraging submission of names for scholarship awards, striving to have a booth at every area hamfest, talking up QCWA at meetings of our many other ham clubs, and giving some overdue publicity to many of our members who are famous for their technical achievements, operating achievements, and travels around the world. Look for some extensive coverage of these hams in future Chapter 29 columns!

Harking back to the newspaper publicity, to our knowledge, the ham radio column written by WA2PUU in every Sunday's Syracuse Herald-American, and started years ago by now-Silent Key Jack Jeffords, W2WS, is the only continuously-running ham radio column in a large-circulation weekly paper in the United States. Supplementing this is the newspaper's extensive telephone message system, with Amateur Radio right up at the top of the hundreds of numbers that can be queried!

Not mentioned above, since it is a singularly large task, is our goal of trying to reach all QCWA-eligible hams in the coverage of the Finger Lakes Chapter. Members who are on packet, whether in this part of NY State or anywhere in the world are encouraged to contact us via chapter secretary NY2V@KB2DIO.#CNY.NY.USA.NOAM.

The Chapter secretary and president make extensive use of each other's packet mailboxes to swap ideas and information, all in print—a very nice feature of packet and other digital modes. Also, in the same technical vein, another of our goals is to obtain interesting guest speakers from the Syracuse area, and to assist members in any way we can to upgrade to packet or other digital modes. Most of us are of course diehard users of SSB and the Continental Code, but those of us who have diversified into other modes can attest to the great fun and utility these modes provide!

Information, per se, is one benefit of packet that yours truly has experienced. Being a heart-attack veteran, I am now looking forward to the new Hearth-Healthy Net started on packet by KA1GAX@KB4N.NH.USA.NOAM. He is taking comment messages at this time and hopes to send out summary bulletins on a monthly basis which will help foster the net's envisioned primary function of being a support group. Once the first bulletin appears, with calls and home BBSs and topics of concern, the messages between individual hams should really start flying. Anything we can do for each other to foster better eating habits, more exercise, experiences in reducing our weight and cholesterol counts, and simply showing we have made it and others can too—what better way to put a positive spin on a subject which is for many a painful, scary, all-too-common, often disabling, ailment! All you out there who can relate to this issue—why not drop KA1GAX or me—NY2V—fat Fred—a packet and get a dialogue going! If it isn't on a positive note, do not fret—we all have our troubles, but we are here to discuss them, and we can hopefully help each other as well as being helped by our cardiologists!

By the way, a full page was devoted to cholesterol in the Fall 1988 QCWA JOURNAL, Vol. 37, No. III. It is still valid, although modern medications such as Mevacor and Zocor are proving highly successful,

albeit expensive, ways to dramatically reduce cholesterol levels in high-risk individuals. I am just an example of how well the stuff works. I'll leave the general subject up to our "staff doctor", Dr. Dub George, WA5BFF, and his Ham's Health column!

Finishing this with a truly positive spin, again we would all like to thank the Editor and many contributors to the strikingly new *QCWA JOURNAL*. It is filled with interesting information and serves as a great recruiting device! Our noontime luncheons at Weber's will continue the last Friday of every month, except for occasional evening meetings to accommodate the many who work and cannot make the noontime bashes! And, look for innovations the new officers have many in mind. My newest packet sign-off logo contains QCWA in larger letters, and the words "Working to Strengthen Ham Radio & Maintain its Traditions". That is what we will be striving to do in the year to come!

Respectfully submitted, Fred Adsit NY2V, Secretary.



Those present at the October 15, 1994 meeting of Chapter 30 are as follows: From left to right, back row: George Ward, W8JWX; James McEwuen, W8GUL; Tom Haymond, W8CCN; Ron Selders, AA8AN; and Sam Moore, W8NCD. Middle row: Bob Hough, W8ESQ; Arnold Sayre, W8WVM; Ruth Rice K8ARA; P J. Palagino, WD8IBN; and Mary Jane Norona, WA8WCK. Seated: Bill Godwin, K8TPF; Cindy Rittenhouse, N8WOD; Vaughn Rice, W8VOI; - Delf Norona, WA8NDY; and Art Ellis, W8PBO.

CHAPTER 30, WEST VIRGINIA: Members and guests of QCWA West Virginia Chapter 30 met on October 15, 1994 at the Western Steer Family Restaurant in Buckhannon, West Virginia for the fall dinner meeting. Twenty-one members and guests were present.

It was noted that President Laymon Knicely, W8CCR, was absent. Knicely recently suffered severe bruises and a broken arm when he fell from the roof of his house while attempting to clean the gutters. As of this date, Laymon is recuperating nicely, and remains in fine spirits.

At this meeting there was an unusual departure from a normal program. West Virginia Chapter 30 had all members participating in an entertaining program of group singing accompanied by organist extraordinaire, WD8IBN, proving once again that radio amateurs are real hams.

Respectfully submitted, P. J. Palagino, WD8IBN, Secretary.

CHAPTER 35, KANSAS CITY: The Kansas City Chapter 30 has moved its Thursday Noon lunch weekly meetings back to its original location. Thursday noon meetings are now at the Elks Club Elite Dining Room in South Kansas City at 99th and Holmes—and as usual all visitors are cordially welcome.

The Kansas City Chapter has been active in membership too. Local dues are waived, and actual mailings and operating costs are defrayed by including such costs in the semi-annual banquets the Chapter sponsors. Potential new members are given a personalized review of membership qualifications and invited to join the local chapter activity and invited to join QCWA national membership when qualified.

The magic word to membership is: "Ask". We are always surprised at the number of qualified QCWA members in the area waiting to be asked to join.

Respectfully submitted, Cass Cassing, W0GJG, Secretary.



Bruce, W0WHK, center, welcomes his table guests to the Chapter 35 luncheon held each Thursday noon at the Elks Club Elite Dining Room in South Kansas City. Photo courtesy W0GJG.

CHAPTER 38, SAN ANTONIO: We normally meet at 11:30 a.m. on the fourth Saturday of each month; however, due to conflicts with other amateur radio activities the meeting date may occasionally be adjusted. Wyatt's has closed its Tesoro Drive cafeteria. We continue to seek a permanent meeting place. For confirmation of the date time and place of the next meeting, call Jim Wright, K5CDT, at (210) 655-2346.

At our monthly meeting on August 27, 1994, Louis Kocurek, W5VIV, was elected Chapter vice-president to serve for the remainder of the year. Louis replaces Bert Walker, K0JIH, who submitted his resignation due to conflicts with other commitments. For the program, Peggy Murray of Citizens Against Crime made a most interesting presentation on ways for each of us to preclude becoming a victim of crime.

For the program at the September 24, 1994 meeting, chapter member Jim Wright, K5CDT, reviewed the multitude of changes in economic policy instituted by the federal government since World War II. He emphasized the affects of those changes on saving, investment and entrepreneurship and suggested which policies worked well and which did not.

At the October 29, 1994 meeting, due to illness, chapter member Clay Laster, W5ZPV, was unable to present his program on Voyager II space probe. Chapter Vice President Louis Kocurek, W5VIV, reported on his trip to El Paso to the QCWA National Convention.

Respectfully submitted, Jim Wright, K5CDT, Secretary.



Attendees at the head table at the October 27, 1994 Chapter 39 meeting are: From left to right, Walt Strawman, WA8PVS, Vice-President; John Flasco (guest speaker), Manager of Water Supply, City of Akron, Ohio; Bob Paul, W8CMO, President; and Bill Hessler, W8DXT, Secretary-Treasurer. Photo courtesy K8ESX.

CHAPTER 39, AKRON, OHIO: The meeting of Oct. 27, 1994 was held at Tangier Restaurant. There were 12 members and 11 guests present of whom three brought by our VP Walt Strawman applied for membership in our chapter. They are Morgan Closs, W8MCU, who has attended previously, as well as Harold Hardy, W8OPO, and Byron McCandless, N8MC, who were attending for the first time.

After lunch and a short intermission the meeting was called to order by President Bob Paul, W8CMO. Then Vice-President Walt Strawman, WA8PVS, introduced our speaker Mr. Ken Wertz who presented an interesting talk about a back-roads motor trip through Southern Germany, Switzerland, Austria, and a bit of Northern Italy. It was illustrated by many excellent color slide pictures. He also answered some questions afterward.

President Bob Paul, W8CMO, then introduced John Edel, K8LBZ, a national director of QCWA who resides in Jackson Township, Stark County, and who had shown up as a welcome but unexpected guest. John spoke on several topics such as the scholarship fund, the five-chapter coordinating committee (COOCOM) which meets in Sharon PA, office of national director, costs of serving in that office, etc.

After in introductions all around Treasurer Bill Hessler, W8DNT, reported that as of Oct. 25 we had on deposit at First National Bank \$355.73 in the General Fund and \$10.75 in the OSCAR Fund, as well as \$38.99 in Petty Cash. Me reported receipt of some dues money since that time.

Next Charley Rogers, W8ZKX, was called upon to report for the Nominating Committee. He reported the nomination of "Ham" Fisher, WA8FQW, for the office of Chapter Director for the term 1-1-95 through 12-31-96. There being no other nominations the secretary was directed to cast a unanimous ballot.

Jim Trutko was then given the floor to make a presentation of a nicely framed Meritorious Award Certificate to our multi-term Secretary-Treasurer Bill Hessler, W8DXT.

The meeting then adjourned. The usual Kitty collection for OSCAR (AMSAT) amounted to \$15.

Respectfully submitted, Bill Hessler, W8DXT, Secretary.

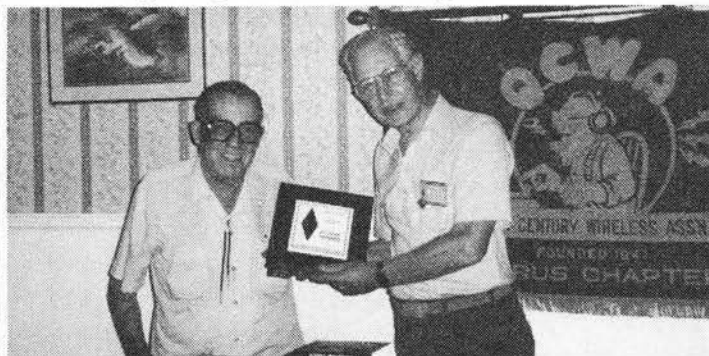


Bob Olney, N5NT, accepts the Chapter 41 presidential gavel from outgoing President Julia Young, K5JFJ. Photo courtesy N5NT.

CHAPTER 41, DALLAS: Dallas Chapter 41, the quintessence of the riveting meeting program dating from the historic address by the late Guglielmo Marconi to the Chapter on the occasion of its first anniversary at the turn of the century, continues the stellar tradition. Distinguished speakers of late gracing the podium have been Jerry Stover, W5AE, whose ultra secret security clearance provided him with "For Eyes Only" maps on his Normandy D-Day Landing heretofore not made public; Jack Kennedy, W5DJ, who related a recent admission to the inner-sanctum of WWV, an event rare to the "outsider" but then Jack, a former key deep-space communications engineer immersed in the Apollo moon landing program at Collins Radio, was no ordinary tourist; Peyton Ohlson, W5LVM, and Lyn Ohlson, W5RYX, cruise experts extraordinaire, and chief purser and cruise director,

respectively, on the maiden voyage of the Kon-Tiki; Barney Moffatt, W5CJZ, an authority on life in the pristine wilds of northern Minnesota amongst the bears and who holds the state record for the fastest senior citizen tree climber, and Dr. Yenlo Trebor, Ph.D., brilliant Swiss astrophysicist who discovered the presence of radiothorium in galaxy quarks while removing a speck of Roquefort cheese from the viewing lens of the Mount Palomar telescope. (Those aspiring to be candidates to address a future formal meeting of Chapter 41 are requested to have their Agent contact Star Booking Company, Dallas, Texas, exclusive agents to the Chapter.)

Respectfully submitted, Bob Olney, N5NT.



Bruce Wyman, K4OP, left, receives his ARRL 60-year plaque from Lee Aurick, W1SE, Assistant Director ARRL Southeastern Division at Citrus Chapter 45's October luncheon meeting. Photo courtesy WB4FSF.

CHAPTER 49, ATLANTA: Chapter 49's October meeting was held at mid-day on the 8th at the Heritage County Buffet in Lake City, Georgia.

The highlight was a presentation by Wayne Flickenger, W5OEV, on the pleasure of pursuing ATV; what it is, how to get started, what degree of financial investment, etc. It was particularly fascinating for those of us who entered Amateur Radio before television was a commercial practicality.

Respectfully submitted, Philip Goodman, K4FXB, Secretary-Treasurer.



Showing off his pride and joy, Wayne Flickenger, W5OEV (center), presented an interesting program about ATV. Wendell, K4VN, and Phil, K4FXB (l-r), displayed some of their interesting and unique QSL cards. Photo courtesy K4FXB.

CHAPTER 51, TEX-LA GOLDEN TRIANGLE: The August and September meetings were held at Tuffy's Restaurant in Mauriceville. There were 41 members and guests present at the August meeting, but an unexpected Saturday morning thunder shower and prior commitments dropped the September meeting's attendance to 14.

Marvin Noack, N5COS brought a piece of antique gear to the August meeting that he had found at a local flea market. With the help

of several members of the group it was identified as a remote control unit from a 1930's console broadcast radio. Apparently a fore-runner of the present-day TV remotes, it used a 30 tube as an oscillator to transmit pulses of RF to the main unit.

A delegation of QCWA members paid a surprise visit to the Golden Triangle's oldest ham, Monty Moncrief, W5JGD, to help him celebrate his 97th birthday.

The October meeting was held at the Brisket Room in Port Arthur with 36 members and guests present. Madison Monroe, president emeritus of Port Arthur College was honored with a Community Service Award from Chapter 51. Port Arthur College provided training in radio, electronics and business to hundreds of young men and women from 1909 until 1975, when it became Lamar University at Port Arthur. A 180 foot tower donated by the Marconi Company in 1909 still stands on the campus.

After the meeting the group moved to Port Arthur's newly opened Museum of the Gulf Coast. The museum houses memorabilia from the oil and maritime industry and such local notables as Harry James, Janice Joplin, "Babe" Didrikson Zaharias, Joe Washington, and the former Coach of the Dallas Cowboys, Jimmy Johnson. Many of our members had their own stories to tell about the exhibits.

Respectfully submitted, Dub George, W5BFF, President.



Madison Monroe (left), President Emeritus of Port Arthur College receives Tex-La Golden Triangle Chapter 51 QCWA Community Service award from ex-student (1939-1940) Glenn Tronstad, W5MSX.

CHAPTER 55, WISCONSIN: Saturday, October 1, 1994 Chapter 55 held its annual fall meeting. It was one of those lovely fall days Wisconsin has to offer. The meeting place was Machut's Supper Club in Two Rivers, WI where thirty-seven members and guests gathered. Before dinner, many "Eyeball" QSOs took place.

At noon, and after the invocation by member Les Peterson, W9YCV, the group enjoyed a superb family style dinner. After dinner, Chairman Mike Ortlieb, KN9P, asked for a moment of silence in remembrance of the Chapter's Silent Keys. Also, reports were given on members that are ill or in health care institutions. Next Fergie, W9IEM, had his Century Club certificate presented to him (see accompanying photo.) Then Ken Tate, WB9OBX, gave an interesting slide presentation on a DXpedition to (CY9) St. Paul Island. He and several other amateurs from Wisconsin visited this island in June. A short break followed during which the ladies went elsewhere to chat or see the sights in the area.

After the break, the business meeting took place. Beyond the normal business there was an election of new board members. Those elected were: Ed Seruga, KE9JJ, George Cox, N9BCX, Jack Krause, W9JK, and incumbent Erv Froehlich, W9RZW. The board met and elected N9BCX as Chairman, KE9JJ as Vice Chairman, W9JK as Secretary and W9RZW retained his position as Treasurer. Those whose terms expired were KN9P, W9OP and W9LPF. The members thank them for their past service to the chapter.

For the spring meeting on the first Saturday in June 1995, the members decided to return to Machut's. Following the announcement of the new officers, the meeting adjourned and an auction of "Junk Box" goodies took place with the chapter's master auctioneer, Travis Baird, W9VQD, conducting it.

Respectfully submitted, Les Peterson, W9YCV, Reporter.



Chairman Mike Ortlieb, KN9P, (on left) presented the QCWA Century Club certificate to Harold Ferguson "Fergie", W9IEM, during the Chapter 55 Fall meeting. Photo courtesy W9YCV.

CHAPTER 63, CENTRAL OKLAHOMA: Our fall quarterly luncheon was held on October 22nd at the Golden Chorale in Midwest City. Mary Brian, K5PBE, and her daughter, Charlotte, K5QAK, both of whom reside in Oklahoma City, were in attendance. Many of us were unaware of Mary's move from Kingston, Oklahoma to Oklahoma City, and we are delighted to have her back with us as an active member. Mary is the wife of Ray, W5IQ, who is now a Silent Key. Those of you who have attended the Texhoma Hamarama in the past no doubt recall the many hours that Mary and Ray put into its success.

We will elect two new Board members by ballot which will be included in the next chapter newsletter. We will have a slate of four candidates whose brief biographical sketches will be included with the ballot. Our nominating committee which consists of Jay, W5QVS, chairman; Jim, W5VSW; and Gene, K5DLE, have worked hard to encourage chapter participation concerning this election. We would like to express our thanks to this committee and to Norm, W5FLO, our secretary, who will help with the ballot, the newsletter, etc.

Our two meter net which meets each Thursday on our 145.41 MHz repeater at 7:00 PM local is receiving very good support. This net has enabled us to gain new members, to meet with hams passing through town, and to keep current with local members as well as local hams who just enjoy participating in our net. Bob, W5HXL, is our regular net control station, although we have many volunteers who substitute for him in his absence. We would like to thank Bob and all the others who have contributed to the success of this two meter net.

Our Sunday Morning "on the air" meeting is held at 8:00 AM local on 3.856 kHz. Our net manager, Gene, K5DLE, keeps the net controls straight by preparing a weekly roster which contains the roll, a hamfest calendar, and other announcements pertaining to chapter meetings. Jay, W5QVS, is our bulletin station, and we enjoy his bulletins along with his bits of humor. We would like to thank Gene, Jay, and the other Board members who help with the net control responsibilities.

We welcome and encourage you to participate in our nets if possible. Norm, W5FLO, recently checked into our Sunday net from Iowa, so please join us. We would like to get acquainted with you!

Our next quarterly meeting, our winter meeting, will occur on January 22nd, at 12:00 noon. The location will appear in the newsletter. Many people en route to the meeting congregate on the 145.41 MHz repeater, so if you are in this vicinity, monitor that repeater, and join us

for lunch. We're always delighted to have guests, and if you attend more than once, we just might put you on a committee. Hi!

In conclusion, have a very merry Christmas and a wonderful new year.

Respectfully submitted, Carol King, K5CPZ, President.

CHAPTER 64, EL PASO: After two years of planning, El Paso Chapter 64 along with Mesilla Valley Chapter 186 hosted the 1994 National Convention at the Camino Real Paso del Norte Hotel. There were nearly 150 registered and from all indications everyone was well pleased. The tours were very successful and especially enjoyed were the steaks and brisket at the Cattleman's Restaurant at Indian Cliffs Ranch. We are thankful to Leo Meyerson, W0GFQ for the sing-a-long. Wes Randles, W4COW, was the winner of one of the many door prizes, the Dual Band Alinco DJ-580-T handheld. Our thanks to the ones who attended and especially those who helped with the registration and festivities. A special word of thanks to Joe Lynch, N6CL, for his cooperation and assistance in preparing the cover of the fall Journal with the 1994 Convention Logo. An excellent job Joe. We hope to see all of you at the Manchester, NH convention next year. We wish them the best of luck.

El Paso Chapter 64 held its annual picnic at Album Park on Sunday October 16, 1994. There were 27 members and spouses in attendance and the ladies did a superb job with all the food. Mary Louise Martin, WD5CUG, predicted good weather and it turned out beautiful with sun and moderate temperatures that was enjoyed by all.

By the time this is in print, Chapter 64 will have elected officers for the year. All the present officers have agreed to serve another term. Re-elected were John Dunsmore, W5DTP, Vice-President; Manny Gonzalez, W2BFL, Secretary-Treasurer, and Dick Martin, K5LUG, and Tisha Young, W1NUO, Directors. During the past few years Chapter 64 has had a 20th Anniversary celebration, three annual picnics, and the 1994 National Convention. Our heartfelt thanks to all officers and directors for the excellent work they have put forth during this very successful period.

Respectfully submitted, Robert J. Carroll, K5IE, President.



Dean, WA7EPU, and Dorothy, W0SWK, Figgins, hold down duties at the registration desk at the 1994 National Convention. Photo courtesy K5IE.

CHAPTER 65, NIAGARA FRONTIER: The annual meeting/banquet was held at Schettler's Restaurant, Elma on Saturday afternoon, October 22, 1994. There were 37 members, spouses, and guests present.

The following officers and directors were elected for terms of three years: President, Robert Rooney, W2AET; Vice-President, Treasurer, Thomas Whalen, W2QI; Secretary Kenneth Palmer, K2FJ; Directors: Daniel Clark, N2DC, Robert Jones, W2OZT, Robert Kerns, K2VNM, Henry Kuhn, W2IRU, Edward Pirrung, W2OTY, Robert Ward, K2PPK, Donald Wagner, W2QFC, and James Waldron, W1HGZ.

The Chapter has 44 members. Financially, the Chapter is quite sound.

Background piano music by Jim Waldron, W1HGZ, was most enjoyable. President Rooney, W2AET, presented the QCWA

Meritorious Award to deserving Chapter Member Bill Hope, W2EWT. His supporting wife Reggie was in attendance.

After a super meal, a period of entertainment was given by Comedienne Ann Palmer and enjoyed by all.

A 1930s globe shaped radio was displayed by Thena Jones. An old heavy chrome plated "bug" was shown by Bob Kerns, K2VNM. Also displayed were old pictures, QSL cards, and magazines. Slim Griswold, W2SD, President Emeritus, donated photo albums containing pictures of members, spouses, and friends in happy times of the past.

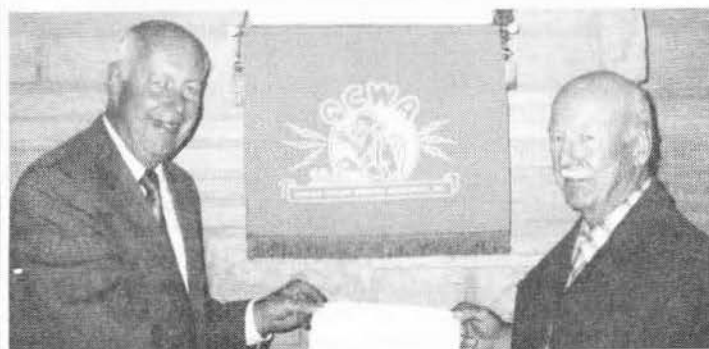
Member Ray Ernst, W2TAX, and wife Ann were in a very bad accident on October 22nd. Ann was hospitalized for a short time. The vehicle was totaled.

Our Sunday Chapter 65 net (W2NW NCS) on 3900 kHz at 1:30 PM local is growing. Come join us.

Respectfully submitted, Ken Palmer, K2FJ/ZB2G, Secretary.



Chapter 65 President Bob Rooney, W2AET, left, presents Bill Hope, W2EWT, with the Meritorious Award. Photo courtesy K2FJ/ZB2G.



Charles Poole, VE3OJ (right), receives his 60th anniversary certificate and pin from National Capital Chapter 70 President and QCWA Director Croft Taylor, VE3CT, in September 1994. Photo courtesy VE3IQ.

CHAPTER 70, NATIONAL CAPITAL: The last meeting of Chapter 70 was held at the Carlingwood Family Restaurant in Ottawa on September 21, 1994. This was the annual Spouses night. The speaker for this evening was Ian McIntyre, VE3CZ. He gave a very interesting talk entitled "X-Ray Radiation as used in Medical and Scientific Fields". Ian used a flip chart to illustrate his talk and also had several X-Ray tubes to show us.

We would also like to report that three of our members attended the Radio Amateurs of Canada (RAC) convention in Calgary, Alberta on July 29-31, 1994. We were represented by our president Croft Taylor, VE3CT, director Jim Dean, VE3IQ, and past director Clare Fowler, VE3NPC. Also, to be noted is that our President, Croft Taylor, now a director of national QCWA, attended the 1994 QCWA International Convention in El Paso, Texas.

On a sad note, we report that Theophile (Phil) Laprade, VE3KN, QCWA 10610, became a Silent Key on September 14, 1994. Phil worked for Canadian Pacific Telecommunications for 47 years,

retiring in 1972. His first call was VE2ET, followed by VE3AZR, VE2HN, and finally VE3KN. Phil was a past-president of Chapter 70 and also of the Ottawa Amateur Radio Club. Phil belonged to the local Emergency Network and was very active passing traffic during a flood in Winnipeg, Manitoba.

Respectfully submitted, Keith Bedal, VE3GFI, Secretary-Treasurer.



John Peer, W8LS, was presented his 75 year plaque in his home in September by Chapter 75 President Len Cummings, W6RBB, right. Also in attendance was Dave Kreiss, W6ELH. Photo courtesy W6ELH.

CHAPTER 75, CENTRAL CALIFORNIA COAST: Our fall luncheon and program was enjoyed by 35 members and friends of Central California Coast Chapter 75. The luncheon was a serve-yourself buffet with barbecue chicken, barbecue tri tip and roast turkey along with salads, veggies and dessert, which everyone enjoyed.

During the introductions of those present, we had the pleasure of again honoring John Peer, W8LS, long time member with 75 years of Amateur Radio service behind him!

For our program, our members and friends had the great pleasure of enjoying an excellent travelogue entitled "It's a Wonderful World" brought to us by Jack Tyo, KB6DUG, and his wife, Alexina, KB6DUH. In addition, there were items of interest on display, representing the culture of many of the countries seen in the travelogue, such as clothes, blankets, tools, etc.

The subject of the 54-minute tape-slide show, with synchronized narration and music, was a visual tour of some of the many countries around the world in which Jack and Alexina have traveled and worked. Thus, we saw scenes from the United States, Canada, and a major section from Nigeria, West Africa. Also included were views from Europe, England, France, and Spain. The show also had a section on Iran, Afghanistan, and the Orient, including Thailand and Hong Kong. We were able to view scenes from Australia and New Zealand, and the show closed with views from the Philippines.

All members and friends enjoyed the question and answer period following the very interesting tape-show, as well as the valuable articles of culture that were on display!

After the program, several door prizes were given away, among them a crate of Santa Maria grown strawberries. All in all, it was a great time of fellowship with QCWA friends from Pacific Palisades, Rancho Cucamonga, and Simi Valley, the south, to Oakhurst, CA in the northeast.

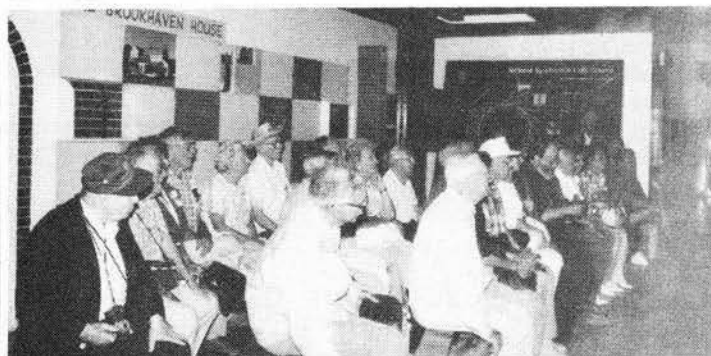
Respectfully submitted, Dave Kreiss, W6ELH, Secretary.

CHAPTER 77, NORTHERN NEW JERSEY: The annual fall luncheon of the Chapter was held at The Robin Hood Inn, Clifton, NJ on October 15. Twenty-three members and guests were present. The biannual election of Chapter officers took place at the event. Elected were: Robert Potter, WA2ALQ, President; David Weisen, K2VX, Vice-President; William Feescher, K2GVC, 2nd Vice-President; and Henry Dull, W2PHW, Secretary-Treasurer.

Nick Zayat, KB2LXW, was the guest speaker and gave a very fascinating and informative talk on fire fighting techniques as well as recommended safety procedures. Nick, until recently a captain with the Passaic, NJ Fire Department, has now been promoted to Deputy Chief. Our congratulations go to him.

Of course, as always, the eyeballs and the good food made for a most enjoyable afternoon.

Respectfully submitted, Henry Dull, W2PHW, Secretary-Treasurer.



Some of the 30 members and guests of Chapter 81 who were treated to a tour of the Brookhaven National Laboratory during this past quarter. Photo courtesy K2LJH.

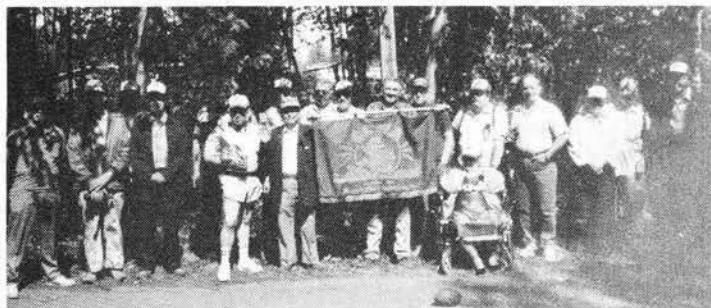
CHAPTER 81, LONG ISLAND, NEW YORK: During this quarter Chapter 81 held an outing at the Brookhaven National Laboratory in Brookhaven, NY on Long Island. This facility is involved with government projects mostly involving nuclear development. Our group of approximately 30 people was treated to a very complete tour. We ended the day with a meal at the laboratory cafeteria. A great time was had by all.

At our regular October meeting we were brought up to speed on what is happening in the amateur satellite world by Mr. Ken Ermandes, a specialist in satellite communications. The meeting ended with Mr. Ermandes distributing a shareware tracking program to all who wanted it.

Jay Altman, W2DX, was honored for his 55 years in ham radio.

We are all looking forward to a great Christmas party and new year.

Respectfully submitted, Sid Wolin, K2LJH, Secretary.



Members of Chapter 92 enjoyed the annual summer picnic. Photo courtesy AL7LW.

CHAPTER 92, NORTHERN LIGHTS: Well, the summer of 1994 is history, the temperature in south central Alaska is repeatedly dipping below freezing, and our members are planning traditional winter activities, such as DXing, rag chewing, and of course, antenna construction since antennas seem to work better if erected under the worst possible conditions.

Chapter 92 enjoyed two successful summer events, the annual picnic and participation in the Anchorage ARC annual flea market. Both events were well attended, and one event, the summer picnic, presented a situation wherein one of our members again demonstrated that many QCWA members are the "cream-of-the-crop". When John Trent, KL7DG, and his wife Marcie arrived at the picnic site at an Anchorage city park, they were dismayed to find that vandals had trashed the pavilion the previous night.

Trash and liquids from the litter containers had been spilled throughout our picnic area. Did John and Marci just stand by and complain, as is the norm in today's society? No way! They cleaned up the trash, then carried many gallons of water and scrubbed the soiled areas so that our members could have a pleasant picnic.

This quality of selflessness makes one proud to be associated with people of this caliber. Incidentally, John is 76 years young, and was one of the founders of Chapter 92.

Respectfully submitted, Larry Plessinger, AL7LW, Secretary-Treasurer.

CHAPTER 104, TREASURE STATE: The Treasure State Chapter 104 held the annual meeting in Butte on October 15. In spite of the storm and the snow, 29 members and guests were present at the luncheon. Our Chapter Historian, Ralph Morris, WA7FOB, did a great job for us in arranging for the meeting room, the luncheon, and the program, all of which were held at the War Bonnet Inn.

A moment of silence was held in memory of our recent Silent Key, Harold Ward, W7JZO. A contribution to the National Scholarship Fund will be sent in Harold's memory by the Chapter.

Certificates for 55 years of service were announced for Clarice Goodwin, W7FTX, and Bob Leo, W7LR, but as neither could be present, the certificates will be mailed.

An election of officers was the main business of the meeting, and those who will serve in 1995 are: President, Ken Kopp, KØPP; Vice-President, Ralph Knuckey, K7NDV; and Secretary-Treasurer, Rose Kopp, N7HKW.

Kalispell was chosen as the locale for the Spring meeting, with the date to be set later, probably late April.

Our program was a video of the first two attempts to launch the around-the-world "Earth Wind" balloon flights from Nevada. This impressive film was obtained through the efforts of Ray Bass, W7YKN, who works with the crews at the launch site. Many Butte hams remember Ray, as he got his Novice license while in Butte. A third attempt to complete the Earth Wind Flight will be made within the next few weeks.

Respectfully submitted, George Hanson, W7BKB, Past President.

CHAPTER 108, BEAVER STATE: Beaver State Chapter 108 held its annual meeting in Albany at Mann's Buffet on October 15, 1994 with President Gene Kelsey, N7EIF, presiding. Following introduction of 26 members and guests, the nominating committee put in nomination persons for the various offices who are to guide the chapter during the coming year. The nominations were closed and the following were accepted by acclamation: President, Frosty Laughlin, K6HVN; Vice-President, Cindy Wall, KA7ITT; Secretary-Treasurer, Fred Dickson, W7LBH; and Member at Large, Dee Morgan, W7VLG.

Our President-elect has offered to host the next meeting at Neufelt's Restaurant, 3734 Commercial Street in Salem on January 21, 1995. He plans to request members attending to bring with them any piece of equipment that they have built in the last couple of years and to demonstrate its operation. This should be an incentive to quickly build something or go to the "junk box" and resurrect something so you can participate and become part of the program.

Hazel Keefer, WA7HKD, of Salem became the impromptu speaker of the meeting and told us of her early ham activities in Hawaii which included how she participated in aiding the doctors in the American Samoa Hospital.

Respectfully submitted, Fred Dickson, W7LBH, Secretary.

CHAPTER 109, BATON ROUGE: PodNuh's Bar-B-Que restaurant was the scene of the September meeting of Chapter 109. An enthusiastic crowd of about 45 members and guests were treated to good fellowship, door prizes, and lots of good food. We appreciated those members and guests who donated prizes for this occasion.

This year is election year for officers and directors for Chapter 109. An election will be part of the business at our November meeting and the newly elected will take office on January 1, 1995. All incumbent directors have agreed to stand for re-election, but as of this writing, we are looking for new candidates for Chapter president and vice-president.

All QCWA members are invited to check into our local nets (Sundays at 0830 local time on 3905 kHz and 2000 local time on the 145.79 MHz repeater). By this means you will be kept abreast of local chapter doings and also hear the latest doings of QCWA members. We will be looking for you.

Respectfully submitted, Shirl Cook, K5OPL.

CHAPTER 112, YANKEE: While many of our members were at the National Convention in El Paso, we who remained in Massachusetts attended the ARRL Boxborough Convention October 1st and 2nd. It was a good turn-out with only a little rain late Saturday afternoon. Five new QCWA member were signed up at the Yankee Chapter booth with a lot of interest shown by many more. Those performing booth duty included: Al Fruzzetti, K1JJJ; George Hughes, W1ALL; Chet Tammany, K1LII; Phil Young, W1JTH (fro the Pine Tree Chapter); Dave Crocker, W1TMO; Yankee Chapter President Len Hadley, W1YGC; and Yankee Chapter Secretary Chuck Walbridge, K1IGD.

Next activity for the Yankee Chapter will be the Christmas party scheduled for December 10 at Dewey's Restaurant in Lakeville, Massachusetts.

Respectfully submitted, Chuck Walbridge, K1IGD, Secretary.



Chapters 114 and 141 met at Murphee's Family Restaurant, Childress, Texas for a noon lunch and combined September meeting. From left to right, rear, J. R. Newman, KA5ROX; Sandy McKean, W5MVJ; Clarence Powell, W5QJY; Leroy Roevers, WA5BXH; Russel Guill, WA5FRJ; and Joe Ward, W5AAX. Front row; Herb Sleeper, WB5PHM; E. D. Mann, WB5IZH; Cecil Cash, W5PML; and Charlie Neal, W5NRI. Photo courtesy Chapter 114.

CHAPTER 114, NORTH TEXAS: The Chapters of North Texas, 114 and 141, met at Murphee's Family Restaurant, Childress, Texas for a noon lunch and combined September meeting. Members and wives from Amarillo, Pampa, Burkburnet, Wichita Falls, and Lawton, OK attended. Chapter 114 Officers for 1995 were installed. For President, Herb Sleeper, WB5PHM; for Vice-President, Joe Ward, W5AAX; for

Secretary-Treasurer, Leroy Roever, W5BXH; and for Directors, Cecil Cash, W5PML, and Clarence Powell, W5QJY.

A Christmas buffet and party has been planned for December at Herb and Joanie Sleeper's home.

Respectfully submitted, Chapter 114.

CHAPTER 120, QUARTER CENTURY WIRELESS WOMEN:

Our annual meeting was held at El Paso, Texas, 4:00 PM, at the National Convention in the Kohlberg Room. Twenty members and guests attended. Our Chapter is unique in the QCWA family in that we are the only chapter whose members are scattered over the US with some members in foreign countries. Because of our locations, we hold one annual meeting which is held at the QCWA Conventions. This is the one point where most of our members are likely to converge at one time.

I consider all our members prestigious. However, we are proud to have the following officials or former officials of the National organization as members of QCWW: Leland Smith, W5KL, President Emeritus; Wes Randles, W4COW, Treasurer; Ethel Smith, K4LMB; Executive Secretary/General Manager, Gladys Chase, W1VPF, Director; and Milly Wise, W5OVH. All of these folks were present at our meeting.

Because any chapter of QCWA is open to any QCWA member, Chapter 120's membership consists of both men and women.

We never have a speaker at our annual QCWW meetings because we have all had the opportunity to attend the QCWA Forums and listen to so many interesting speakers.

A moment of silence was held in memory of Juanita Lane, WB0WWD, a former editor of "Silver Sparks", QCWW's quarterly newsletter.

A motion was made to give a memorial to the scholarship fund in Juanita's name as well as a separate amount in QCWW's name.

Ethel Smith, K4LMB, showed a copy of Louise Sanders' book *CQ YL* which has just been reprinted and updated. Please contact Ethel if you are interested in a copy.

Discussion was held regarding election of officers for 1995-1996.

Everyone was urged to check into the QCWW Net as often as possible so we can keep in touch. The net meets on Tuesdays, 2 PM ET, summer and winter, on 14.295+ MHz. Maxine, K4KUU, Ogden, UT, is net control.

The next annual meeting will be held at the QCWA National Convention in Manchester, NH, October 1995.

Respectfully submitted, Ann Arnholt, K9RXK.

CHAPTER 123, LEE DEFOREST: We had the largest attendance ever at our annual QCWA luncheon, May 14th at the Marina Inn, South Sioux City, NE. This was in conjunction with HAMBOREE 16—Nebraska State Convention. The attendance was 69, representing Chapters 123, 102, 25, and 8, plus other chapters. Al Gowan, W0LX, displayed and explained several pieces of antique radio equipment and publications. Bob Beals, K0DBW, displayed and explained a new state-of-the-art solid state linear amplifier he had recently constructed. Frank Shaw, NU0F, Vice-President of Chapter 102, presented awards to Chapter 102 Net Control members.

Chapter 123 President Bob Beals presented a 55 year award certificate to Al Smith, W0PEX. Other Chapter 123 members not present to receive their awards were Arthur Reddick, W0KUK, 55 year award; Norman Walker, W0OUJ, 55 year award, and Leonard Strohm, W0GSH, who received his 60 year award before becoming a Silent Key, March 2, 1994.

Larry Washa, K0EDO, of Garwin, IA, was elected as the new president. Verlin Rowley, K0BRE, Vice-President, will still fill that office. Al Smith, W0PEX, will continue as Secretary-Treasurer.

Under the leadership of our new President, Larry Washa, K0EDO, Chapter 123 is making efforts to bring QCWA activities to areas of the state. Chapter 123 is the only chapter in Iowa.

On August 14th we had a QCWA table at the Cedar Rapids Hamfest. Two new QCWA members resulted as well as several good prospects. There was a lot of interest shown about QCWA. We had a QCWA luncheon with an attendance of 24. It was a fine social event—QCWA members meeting members who had radio contacts for many years, plus gaining new friends.

Respectfully submitted, Al Smith, W0PEX.



Chapter 123 President Larry Washa, K0EDO, and Secretary-Treasurer Al Smith, W0PEX, man the QCWA table at the with HAMBOREE 16—Nebraska State Convention in May. Photo courtesy W0PEX.

CHAPTER 126, PIEDMONT: The fall luncheon of Chapter 126 was held on September 24, 1994 at the Golden Corral Restaurant in Winston-Salem, NC. Twenty-six members, spouses, and guests attended.

John Price, From Raleigh, NC, presented a slide and music show of his travels in New Zealand. He made each of us want to go to a travel agent and book a trip to the land down-under. We voted to give a contribution to Habitat for Humanity as a way of showing our appreciation to John for his fine presentation.

President Walter VanGeison, AB4DQ, gave a report on our Sunday morning net participation and announced a new net being formed on 3907 kHz each Thursday at 8:00 PM local time.

Respectfully submitted, Wilbur D. Fulton, W2SE, Secretary.

CHAPTER 128, PELICAN: The Big Brown Bird, better known as the Pelican Chapter 128, has had a fantastic fall season. We have met every month during 1994. The Pelicans had formal meetings, except during July and August, and these were held on an informal basis. By the time that this report is in print, we will have enjoyed our annual fried chicken picnic at Lake Seminole Park. Our officers will have been elected for 1995, and the nominations will have been made to determine whom will be the recipient of the "Phil Stern" award. At the Pelican Chapter this is the highest award that we can give a fellow member.

Another item of news that has made the Pelican Chapter successful is that we have elected to membership the following amateurs: Ren Whatley, WA4JVR; Phil Winters, K8THT; Ron Tate, K4AUW; Swanie Swanson, W4VSH; Allan Pickering, KJ9N; and Owen Staton, WA9NII. These six new members have contributed to the successful year of our President Irwin Meyers, WA2YQU.

Respectfully submitted, J. Fredrick Strom, K9BSL, Secretary.

CHAPTER 135, MID-MICHIGAN: Chapter 135, chartered October 1981, entered the terrific teen years this year by holding its 13th anniversary dinner on October 20, 1994, thus becoming a member of the teenage society.

There were 41 members and wives gathered at the Delhi Cafe in Holt, Michigan (just across the street from Lansing), sharing good food and great fellowship.

A much longer milestone was also recognized: Our Chapter President, Ken Harris, W8KWO, and Ruth, his bride of 60 years, had celebrated their 60th wedding anniversary on October 6th. The assembled group offered their congratulations.

In addition to two dinner meetings during the year, Chapter 135 meets for breakfast on the last Saturday morning of each month throughout the year.

Respectfully submitted, John E. Hewitt, K8DHN, Secretary-Treasurer



Chapter 135 President Ken Harris, W8KWO, and Ruth, his bride of 60 years. Photo courtesy W8KWO.

CHAPTER 149, NUTMEG: The summer meeting of the Chapter was held at the Seafarer restaurant in Cheshire, CT on August 13, 1994. Eighty-one members and guests were present.

Immediate Past President Harold Chase, W1EES, welcomed the group and expressed his appreciation for the excellent attendance. (The President and Vice President were vacationing in Maine and Vermont respectively.) After a round of self introductions, there were some announcements. Father Charles Tardiff, W3EHG (ex 5H3JR), was present and is celebrating 47 years in the priesthood; today is the birthday of John Savonis, W1DBS and Phil D' Agostino, W1KSC, had an antique radio on display.

Sympathy was extended to the family and friends of the following Silent Keys: Herb Nordholm, W1IAO, Carl Walther, W1OPZ, and Ed Zimmerman, W1ZFK.

Secretary Don Steele, W1NFG, announced that the minutes of the previous meeting were printed in the November Newsletter and Milt Chaffee, W1EFW, presented the Treasurer's Report. Milt mentioned that a few are delinquent in their dues, and reminded members that National dues must be current to be a Chapter member.

Cal Bennett, W1KHL, Activities Net Manager, said he is still selecting the place for the next meeting. He acknowledged check-ins for the Sunday net - 11:30 A.M. local time, 3,923 KHz.

Harold, passed around for signing, a card of appreciation to be sent to George Spamer, W1DPR, past Editor of the Newsletter.

Milt, W1EFW, presented to W1OV, Bob Chapman, a 70 year Certificate of Achievement and 70-year QCWA pin. Bob responded by displaying his original 1924 license signed by Herbert Hoover (senior). Don, W1NFG, presented Bob with a congratulatory card from Jim and Andrea Parker, K1VII and K1WLX, which Don had carried from Vermont where he chatted with Andrea on 2 meters.

Milt Chaffee moved that the Chapter donate \$200.00 to the QCWA Scholarship Fund. The motion was passed unanimously. John Huntoon, W1RW, presented a 60- year certificate to John Titterington, W1EOF, and mentioned that John had graduated from URI at age 80.

Harold, W1EES, reported that 55 people had a great time at the New England Chapter's picnic in Keene, NH on July 23. Pine Tree Chapter will host the event next year.

Gladys Chase, W1VPF, reported on plans for the National Convention, to be held in New Hampshire on October 13 and 14, 1995.

Kay Chaffee is collecting donations of prizes for women at the convention.

Al Cohen, W1FXQ, introduced George Hart, W1NJM, who gave a very interesting and amusing talk entitled, "How My Wife Put Up With Ham Radio All These Years, 55 To Be Exact."

Sixty-one members and guests attended the fall meeting on November 12, 1994 at Rapp's Paradise Inn in Ansonia, CT.

President Charles Griffen, W1GYR, welcomed everyone and expressed his appreciation at the fine turnout.

Sympathy was extended to the family and friends of two members of the Chapter who became Silent Keys: Stanley Domorod, W1AKG and Peter Depasquale, W1GUC. Five new members were recognized: Americo Aranci, W1UKX; Robert Byrne, K2AXM; Owen Garner, W1SBM; Gregory Stoddard, N1AEH and Walter Yatzook, N1CJB.

Betsey Doane, K1EIC, Chapter member and ARRL CT Section Manager spoke briefly on the communications planning taking place for the World Special Olympic Games to be held in New Haven in 1995. She also presented a plaque to John Huntoon, W1RW, (QCWA Director) for his sixty year membership in the ARRL.

During the business meeting Secretary Don Steele, W1NFG, stated that the minutes of the last meeting were printed in the November Newsletter. Milt Chaffee, W1EFW, a QCWA Director, gave a brief report on the board meeting held at the QCWA National Convention in El Paso, TX. Next, he gave the Treasurer's report for the Chapter and reminded everyone to renew their national dues. He also mentioned QCWA's Sunday afternoon net on 14.347 MHz.

Gladys Chase, W1VPF, a new QCWA Director, reminded everyone of the QCWA National Convention to be held in Manchester, NH on October 14-15, 1995. She said the five New England chapters had made considerable progress in their preparations for the event. If you are interested in volunteering please contact Gladys who is Convention Chair.

Cal Bennett, W1KHL, announced that the next Chapter meeting would be held at the Manor Inn in Southington on February 11, 1995. He also reminded everyone that the Chapter's Sunday net meets at 11:30 A.M. on 3.923 MHz.

Charles asked Al Cohen, W1FXQ, to Chair the Nominating Committee to prepare a slate of officers for 1995 - 1996.

Next Al introduced the guest speaker, Harold Robles, the founder and CEO of the Albert Schweitzer Foundation. After a brief video tape about the life of Albert Schweitzer, Mr. Robles discussed the purpose of the Foundation and his eye-witness accounts from frequent visits to Bosnia. He and his organization are involved in providing humanitarian aid to victims of this and other conflicts around the globe.

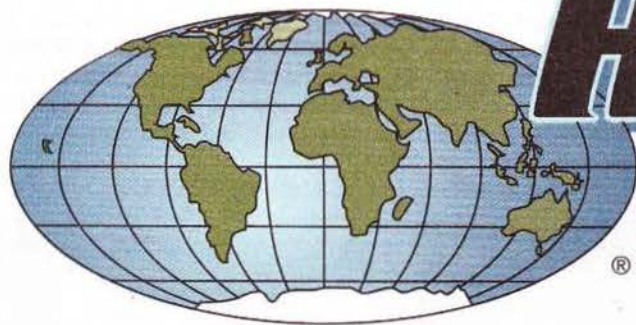
Charles concluded the meeting by expressing his appreciation to the Executive Board for their many contributions to the Chapter during the past year and wished everyone a pleasant holiday.

Respectfully submitted, Charles Griffen, W1GYR, President.



Chapter 151 President Bruce Collisson, VE3BAC (left), is shown conducting a meeting together with QCWA HQ International Affairs Director Croft Taylor, VE3CT. Photo courtesy VE3CT.

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(800) 444-9476
Joe, KDØGA, Mgr.

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1702 W. Camelback Rd.
(602) 242-3515
(800) 444-9476
Gary, WB7SLY, Mgr.
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(800) 444-7927
Mark, KJ4VO, Mgr.
Doraville, 1 mi.
no. of I-285

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(800) 444-4799
Curtis, WB4KZL, Mgr.
Exit 161, I-95, So. to US 1

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CHAPTER 151, WILDROSE: The annual board meeting of Chapter 151 was held at the first Radio Amateurs of Canada convention. The RAC came into existence this year as a result of the amalgamation of two former long existing bodies—the Canadian Amateur Radio Federation (CARF) and the Canadian Radio Relay League (CRRL).

The Convention was a resounding success with over 1100 in attendance and with members from all Canadian and many USA QCWA chapters in attendance. Chapter 515 hosted a QCWA luncheon which was well attended, and the QCWA booth was busy all the time.

International board member Croft Taylor, VE3CT, drove 2500 miles in order to attend the meeting. Croft said that a convoy of Amateurs seemed to form at the Ontario/Manitoba border, and the 2-meter band was active all the way to Calgary. Almost all travelers dropped into the Manitoba Amateur Radio Museum in Austin, Manitoba. It is Canada's only exclusively Amateur Radio Museum, and it is hoped the museum will be the subject of a future QCWA Journal article.

Respectfully submitted, Croft Taylor, VE3CT, International Affairs Director.

CHAPTER 154, LEO I. MEYERSON: The Chapter namesake, Leo, has returned for his winter sojourn in the Coachella Valley, leaving his Omaha digs after spending the summer working on the expansion and enhancement of his extensive Amateur Radio museum created in the former railroad station in that city. The arrival of other "snowbirds" also has been noted on the regular 2-meter net sponsored by QCWA every Thursday night, where the participation has jumped more than 25 percent over the hot summer months.

A full house indicated the arrival of other members from all over the country in the November luncheon staged, as usual, in Desert Hot Springs. The meeting featured a short digest of the ham career of Sid Rose, W9VKC, who told about his experiences as an FCC Radio Intelligence Officer in the early stages of World War II and his follow-up career as a communications officer for the air force in the China, Burma, and India theater of the war. He concluded with his frustrating story of the problems in creating an antenna system to work DX from his condominium situation from Palm Desert beset by the restrictions a gated community throws at ham radio.

Don Doughty, W6EEN, Chapter President, continues to improve his record in contesting from his Bermuda Dunes operation where his antenna farm is taking on increasing dimensions. He also has more than doubled the size of his shack which is taking on the appearance of the space program control operation. Don continues his planning for the March 4th annual chapter luncheon, which is expected to draw more than 200 attendees from Arizona and southern California.

Respectfully submitted, Sid Rose, W9VKC.



Chapter 158 Vice-President Herman L. Cole, W5YDP (left), presents QCWA Anniversary Award for 55-years to Chester H. Pierce, AB5QA. Photo courtesy K5SVS.

CHAPTER 158, CENTRAL ARKANSAS: The third meeting in 1994 of Central Arkansas Chapter 158 was held on May 21 at the Baptist Medical Center in Little Rock, Arkansas. Seven members attended the luncheon meeting. Vice President Herman L. Cole, W5YDP conducted a brief business meeting which included an announcement by ARRL Section Manager, Bob Ideker, WB5VUH that a program had been scheduled at the Arkansas State Capitol Building on June 3 in recognition of Amateur Radio Appreciation Day.

Our fourth meeting of the year was held at the same location on July 16. The 22 members and guests who attended represent a near record turn-out and was certainly our best group of the year to date.

Following an excellent lunch and an enjoyable fellowship session, Vice President Herman L. Cole, W5YDP, called the meeting to order and conducted a brief business meeting. QCWA 50-Year and 55 Year Anniversary Certificates were presented to Chester H. Pierce, AB5QA. Congratulations, Chester!!

The highlight of the meeting was the presentation by Shirley Spencer of the recently completed Chapter 158 quilt. Twenty-three members provided a 12 inch square block of their own design along with a centerpiece block that when into the making of a finished quilt of approximately 25 square feet. Shirley designed and fabricated the center block which contains the names of the charter members and Silent Key members. The member blocks contain the member's name, callsign, first year of license and other related information that produced a unique work of art that must be seen to be appreciated.

We extend our thanks to Shirley for her outstanding efforts of project coordination and final assembly work without which this project would not have been possible. It was decided by the Chapter 158 Board of Directors that the quilt shall be known as the Thomas A. Spencer, Jr. Memorial Quilt in memory of Shirley's late husband. Tom, W5IGM was instrumental in the organization of Chapter 158 and was one of fourteen charter members.

Respectfully submitted, J. Phil Powledge, K5SVS.



Travis Baird, W9VQD, shows the Century Club certificate he just received from Chapter 162 President Ed Konicek, W9NVK, at the Chapter's annual picnic on August 14, 1994. Photo courtesy W0WLN.

CHAPTER 162, SOUTHEAST WISCONSIN: The annual Chapter picnic was held Sunday, August 14, 1994, at the home of Larry McCalvy, WA9JMO, and his wife, Wendy, N9PAC. "Decision Farm", the McCalvys' home, is a beautiful park-like setting with a lake and grounds perfectly maintained. A total of 35 members, wives, and guests enjoyed roast sweet corn provided by Larry and watermelon provided by the Chapter through efforts by Bill Komistra, W9OVZ. A highlight of the meeting was presentation by President Ed Konicek, W9NVK, of a QCWA Century Club certificate to member Travis Baird, W9VQD, a former national QCWA director. Amateur Radio equipment owned by the Chapter was on display.

The regular monthly Chapter meeting for September was held at the Southport Restaurant in Kenosha on Monday September 19, 1994, at 7:00 PM.

The Chapter Annual Meeting was held at 1:00 PM Sunday October 16, 1994 at the Holiday Inn Harborside in Kenosha, attended by 30 members, wives, and guests. A fine meal at Chapter expense was enjoyed by all, after which a short business meeting was held. President Ed Konicek, after considerable discussion, appointed a "Sunshine Committee" to formulate Chapter policy for recognizing deaths, illnesses, or hospitalizations within members' families. The President also appointed two members to represent the Chapter in preparations for the annual area ham banquet to be held in February 1995. The Chapter also agreed to donate \$15.00 annually to the Area Hams Awards Committee and \$25.00 to the area Amateur Radio License Classes being conducted by Larry McCalvy, WA9JMO.

Elections were held for four Directorships. Successful candidates were WA9JMO, W9ERG, W9HR, and W9OVZ. The new Board of Directors then met and elected Bill Komistra, W9OVZ, President; Ken Knoff, N9NBC, Vice-President; and Bob Jensen, W0WLN, Secretary-Treasurer. A Program of slides and explanations was then presented by WA9JOM, telling of his and Wendy's trips to Russia.

Respectfully submitted, Robert N. Jensen, W0WLN, Secretary-Treasurer.

CHAPTER 168, OREGON TRAIL: Our Chapter luncheon meeting on October 15, 1994 at the Old Country Buffet Restaurant in SE Portland was well attended by 20 members and their guests. We were honored to have with us QCWA General Manager Jim Walsh, W7LVN, from Eugene, Oregon. Jim brought with him one of the door prizes, a QCWA sweat shirt. Our Chapter President Bill Payne, K7TDO, furnished the other prizes. A total of six door prizes were given out to the lucky ticket holders.

A letter was read to the members from QCWA General Manager Jim Walsh, W7LVN, to the Chapter Secretary Fred, K7LNS, informing him of the upcoming QCWA Board meeting in Eugene, Oregon. This will be held at the Hilton Hotel on April 6th and 7th 1995. It was an invitation for all Oregon Chapter members to attend a tentative no host luncheon on Saturday April 7th. Fred was to inform Jim at a later date of how many members from our Chapter have an interest in attending this luncheon. So, if you would be interested, let me know. Say, at least 30 days in advance.

A short discussion by the members was held in regard to where the Chapter should have our next luncheon meeting. It was finally agreed upon to stay with our same location, the Old Country Buffet Restaurant in Portland.

Our Chapter membership now stands at 28, a very nice increase from our April meeting.

Respectfully submitted, Fred Behrman, K7LNS, Secretary-Treasurer.

CHAPTER 169, SACRAMENTO VALLEY: Sacramento Valley Chapter 169 meets the 2nd Wednesday of each month at Lion's Restaurant, 2000 Howe Avenue, Sacramento, CA at 8 AM. Breakfast is served first and then we have our meeting, which consists of a business sessions, a speakers prize drawing, and socializing.

Our last meeting was held on Wednesday September 14, 1994. There were 35 members and 3 YLs in attendance. Our speaker was Don Macholz, a local amateur astronomer who has discovered seven comets with his own telescope, all of which are named after him. A "question and answer" session followed. The lecture was enjoyed by all.

The previous meeting was held on Wednesday, August 10, 1994 and we had 34 members in attendance, including four wives. Our Speaker for the day was Bill Howell, who is a member of the

Sacramento Historical Radio Society, a group that collects and restores old (pre- World War II) Broadcast radios. He brought several old radios for observation including a cathedral Philco Model 70, a Breting 14 ham receiver and several Hallicrafters including a model Sky Buddy. He described how they restored these old radios to top notch operation. Getting parts like knobs, dials, tubes, and transformers can be a problem.

Our July meeting was held on Wednesday July 13, 1994. The speaker was Mead Kibbe, who gave us a slide-illustrated talk on the Central Pacific Railroad, the first railroad to reach California back it the 1860s. The talk described how the railroad was built, some of the problems they had in getting over the Sierra Mountains, and building trestles across the rivers.

The meetings adjourned at 9:30 AM. All QCWA members and other amateurs are invited to attend our meetings. For further information, please phone me at 916-331-1830 or Bill Hendricks NS6D, our Secretary-Treasurer, at 916-925-5858.

Our club is growing, so come and join us, 73's.

Respectfully submitted, Paul L. Wolf, W6RLP, President, Chapter 169.



There were 13 members and their guests at the semi-annual meeting of Chapter 174 in September. Photo courtesy K9UTO.

CHAPTER 174, BADGER: The regular semi-annual meeting of Chapter 174 was held at 1 PM on Saturday September 17, 1994 at the Radio Station Restaurant in Wautoma, Wisconsin.

There were 13 member and their guests in attendance. Two new members have joined the Chapter: Les, K9KGM, and Bob, N9UAR.

Chapter membership certificates are being developed and should be available soon.

Reno, W9NA, was presented with the "DX Hog" award by the Chicagoland DX Association recently. Reno is a member of the DXCC Honor Roll with 327 countries to his credit.

A joint gathering among Chapters 174, 162, and 55 is being considered for the summer of 1995. Details later.

QCWA Director Walt Brink, W3WPY, recently visited Bob Baird, W9NN (QCWA Charter member) on his way to a Class reunion in Iowa. Bob said they had a wonderful chat.

Elections were held with the following results: Tom Liska, K9CJM, President; Gene Santoski, K9UTQ, Secretary (second term); No treasurer was elected (KA9LAQ filling in until one is found). New Directors are Al, K9WVM, and Wayne, K9MIF.

Meeting adjourned at 2:25 PM.

Respectfully submitted, Gene Santoski, K9UTQ, Secretary.

CHAPTER 181, HUDSON VALLEY: The Chapter sponsored a picnic at Lyndhurst, the home for many years of the financier, Jay Gould. It overlooks the Hudson River near Tarrytown, NY and is one of the prime examples of Gothic style architecture owned by the National Trust for Historic Preservation. A small group met on a very warm day, July 16, and had a fine tour of the old Mansion. The next Chapter meeting is scheduled for November 12, 1994.

Respectfully submitted, Dick O'Brien, NJ2J, Secretary.

New Members

Date	Mem NR	Name	Call	City	St.	Sponsor	Sponsor's Call
08/25/94	26924	Black, David	NØDLJ	Cedar Rapids	IA	John Ely	WØGN
09/01/94	26931	Hall, Kevin Daniel	WE6Y	Bishop	CA	Don Freeman	WS2Z
09/01/94	26932	Larison, D G	W7HKI	Oceanside	CA	-	-
09/01/94	26933	Larison, Maxine N	W6HKL	Oceanside	CA	-	-
09/02/94	26934	Frye, Bailey	WA9OWH	Logansport	IN	Clyde Mayfield	NT9W
09/02/94	26935	Goehring, Norval F	WAØPNB	Hitchcock	SD	Roland Cory	WØYMB
09/03/94	26936	Bovitz, J Scott	N6MI	Hacienda Heights	CA	Joseph Saugier	K6CD
09/06/94	26937	Beaman, Bruce C	K1HTN	E Bridgewater	MA	Harold Chase	W1EES
09/06/94	26938	Bernier-Gawle, Carol A	WA1LGU	Easthampton	MA	George H Hughes	W1ALL
09/06/94	26939	England, George W	K4UMW	Nashville	TN	-	-
09/06/94	26940	England, Wylodean D	WA4HKU	Nashville	TN	-	-
09/06/94	26941	Germeroth, Robert M	WB2HTW	Nesconset	NY	H F Milatz	W2TLC
09/06/94	26942	Foster, Robert A	N9UAR	Wisconsin Rapids	WI	John Feltz	WA9LWJ
09/06/94	26943	Lust, Leslie V	K9KGM	Wisconsin Rapids	WI	Eugene Santoski	K9UTQ
09/08/94	26944	Miller, Richard	WB4NCZ	Jacksonville	FL	John Silsby	K4YTB
09/09/94	26945	Hatcher, Harry M	W5RAN	Friendswood	TX	John S Turner	WA5LOO
09/09/94	26946	Sweadner, Walter R	KØ6EE	San Diego	CA	Joe Saugier	K6CD
09/12/94	26947	Freiss, Donald F	WB4FOK	Salisbury	NC	A Harvey Adams	W1YJ
09/12/94	26948	Martinez, Rafael R	KP4ABG	San Juan	PR	-	-
09/12/94	26949	Zebal, Ernest	WA7MFH	Reno	NV	Larry E Oakley	W7AAA
09/12/94	26950	Prince, Lewis A	WA6CFK	San Diego	CA	Jack Pletcher	W6JIR
09/13/94	26951	Cook, William R	K5LPS	Newburgh	IN	William L Hilyerd	K4LRX
09/13/94	26952	Hyer, Donald R	AA1KI	Lynnfield	MA	Myron T Kelly	W4VQE
09/15/94	26953	Genola, Alfred R	K2IDF	Annapolis	MD	Carl Gray	W4ACM
09/15/94	26954	Izzo, John P	W3JIE	Fayetteville	PA	Marshall Stenger	W3KRM
09/15/94	26955	Novak, Harry	K6HBF	Granada Hills	CA	Sidney R Rose	W9VKC
09/15/94	26956	Williamson, Gerald	K5GW	Plano	TX	Joe Lynch	N6CL
09/16/94	26957	Cunningham, Charles M	AB7CP	Jackpot	NV	-	-
09/16/94	26958	Sherman, James W	N7VVG	Rigby	ID	K B Anderson	W7LQU
09/19/94	26959	Hansen, Peter	W8TWA	South Lyon	MI	Larry Alman	WA8QCW
09/19/94	26960	Keihn, Gerald	WA7FWZ	Reno	NV	Robert J Davis	KG7FY
09/20/94	26961	Brogdon, Al	K3KMO	New Britain	CT	Milt Chaffee	W1EFW
09/20/94	26962	Eaton, Maurice H	WA5YCW	Nederland	TX	-	-
09/20/94	26963	Glover, Samuel II	WJ8Z	Cincinnati	OH	Edmund Casey	W8DWJ
09/20/94	26964	Nelson, De Hart	WW8Z	Cincinnati	OH	Edmund Casey	W8DWJ
09/20/94	26965	Reguero, Ricardo	KP4EZ	San Juan	PR	Victor Madera	KP4PQ
09/20/94	26966	Vila, Johnny	KP4MO	Guaynabo	PR	Victor Madera	KP4PQ
09/21/94	26967	Hopkins, Mike	NU5V	Palametto	LA	-	-
09/21/94	26968	Simon, Harry F	KD6SB	Sacramento	CA	Paul Wolf	W6RLP
09/22/94	26969	Mc Garity, Arthur E	AC3V	Swarthmore	PA	Owen Mc Garity Jr	K5HBU
09/23/94	26970	Nicks, Jimmie	K5WIA	Wichita Falls	TX	Charles Neal	W5NRI
09/23/94	26971	Rogozinski, Anthony M	N5BG	Glendale	AZ	John E Gray	K7GFZ
09/25/94	26972	Mocker, Joseph F Jr	W2CZP	Schenectady	NY	Richard Lathers	KJ2T
09/25/94	26973	Thiemens, Art	AA4AT	Chesapeake	VA	Elias Etheridge Jr	K4IX
09/27/94	26974	Kato, Kazuma	JAØCYK	Itoigawa, Japan		Bruce Peterson	W6JWL
09/27/94	26975	Kato, Masako	JAØCYL	Itoigawa, Japan		Bruce Peterson	W6JWL
09/27/94	26976	Rigg, Rod C	W6YGG	Stockton	CA	-	-
09/27/94	26977	Hiles, Alan	VE3EEC	Nepean	ON	Keith Bedal	VE3GFI
10/06/94	26978	Atchley, Frank S	WB4DXW	Nashville	TN	-	-
10/06/94	26979	Brooks, James R	KØJJV	Hays	KS	-	-
10/06/94	26980	Cerwin, Steve	WA5FRF	San Antonio	TX	-	-
10/06/94	26981	Corson, Geoffrey A	W3CAS	Dauphin	PA	Glenn R Kurzenknabe	K3SWZ
10/06/94	26982	Curtis, Ralph W Sr	K3CFL	Lewes	DE	Walt Brink	W3WPY
10/06/94	26983	Jones, Murray G	K4ANH	Hendersonville	TN	O D Keaton	WA4GLS
10/06/94	26984	Krogstad, Milton O	NØLAK	Omaha	NE	Dick Newsome	WØHXL

New Members

Date	Mem NR	Name	Call	City	St.	Sponsor	Sponsor's Call
10/06/94	26985	Lemne, Richard A	KB9FA	Oshkosh	WI	-	-
10/06/94	26986	Menoyo, Jose M	KP4WF	San Juan	PR	Victor Madera	KP4PQ
10/06/94	26987	Mieras, Bonnie L	KD6FIY	Hernando	FL	Eunice Gordon	W1UKR
10/06/94	26988	Mieras, W R	K6JWS	Hernando	FL	Eunice Gordon	W1UKR
10/06/94	26989	Mitchell, Harvey N	AA5YU	Seabrook	TX	John S Turner	WA5LOO
10/07/94	26990	Neval, Arturo Diaz	KP4TI	Levittown	PR	Victor Madera	KP4PQ
10/07/94	26991	Powley, Jack R	WA0SAQ	Yutan	NE	Richard E Newsome	W0HXL
10/07/94	26992	Schwarz, Guillermo	KP4DDB	Guaynabo	PR	Victor Madera	KP4PQ
10/07/94	26993	Scott, William P	KC5FJ	Wichita Falls	TX	Charles Neal	W5NRI
10/07/94	26994	Smith, Florence A	KB2JKC	Chappaqua	NY	Joe Bruno	WB2VVS
10/07/94	26995	Smith, Kenneth Ramirez	KP4MX	Santurce	PR	Victor Madera	KP4PQ
10/07/94	26996	Keaton, O D	WA4GLS	Old Hickory	TN	-	-
10/11/94	26997	Cipolla, Phyllis M	N2AGY	Sun City West	AZ	Anthony H Cipolla	W2QL
10/11/94	26998	Carroll, Charles	K1XX	Rindge	NH	Charles Walbridge	K1IGD
10/11/94	26999	Desillier, Adrien J	K1IAG	Bellingham	MA	Charles Walbridge	K1IGD
10/11/94	27000	Perty, Fred T	W1WFZ	Coventry	RI	Charles Walbridge	K1IGD
10/11/94	27001	Shotwell, Robert A	WA1KUZ	Sunderland	MA	Charles Walbridge	K1IGD
10/12/94	27002	Bell, George M	WA8DYA	Melbourne	FL	Arthur Greene	K4DQC
10/12/94	27003	Fuentes-Benejam, Jose R	KP4ECL	Sabana Seca	PR	Victor Madera	KP4PQ
10/12/94	27004	Krasko, John	N2JK	Tarrytown	NY	Richard J Robinson	W2OZA
10/12/94	27005	Loft, Ernest E	AB4AX	Brooksville	FL	Thomas S Steele	AA0HQ
10/12/94	27006	Sandage, U G	WA4ZYE	Lebanon	TN	-	-
10/12/94	27007	Staton, Owen C	WA9NII	St Petersburg	FL	Irwin Meyers	WA2YQU
10/14/94	27008	Alberty, Donald L	KP4DQ	Rio Peidras	PR	Victor Madera	KP4PQ
10/14/94	27009	Aranci, Americo	W1UKX	Hamden	CT	August Azor	W1JAK
10/14/94	27010	Camien, Ralph R	WA0ZYU	Wichita	KS	Del Patterson	W0JCY
10/14/94	27011	Smalley, Purl	WA8CIC	Gahanna	OH	Paul L Spooner	W8YMI
10/17/94	27012	Campbell, Clarence N	K7CMH	Burkburnett	TX	Joseph R Boucher	W5NQD
10/17/94	27013	Gaines, Norman	N5FLB	Playas	NM	Robert J Carroll	K5IE
10/17/94	27014	Jennings, Mel	WL7NE	Chugiak	AK	Roy Gould	AL7MZ
10/17/94	27015	Hill, Gene Allison	N5JRC	Baton Rouge	LA	J Warren Aubin	K5DVQ
10/17/94	27016	Jolly, Roger B	WA5ZEQ	Port Neches	TX	Glenn Tronstad	W5MSX
10/17/94	27017	Mullinix, Larry	K6ZIV	Saunas	CA	-	-
10/17/94	27018	Myers, Larry E	W3MNE	Eldersburg	MD	-	-
10/17/94	27019	Pendergrass, Joe R	KD6CMS	Winnetka	CA	-	-
10/17/94	27020	Sigman, Thomas E	WB4GLB	Nashville	TN	-	-
10/17/94	27021	Sperling, Elliott M	KB3LY	Seaside	CA	-	-
10/18/94	27022	Concannon, C F	K4RQ	Fort Belvoir	VA	Lewis L Bradley Jr	W4SWP
10/21/94	27023	Brashear, Glynn M	N5MCA	Farmington	NM	-	-
10/21/94	27024	Clendening, Danny P	WB5ORL	Springfield	MO	Dick Willis	K0KUD
10/21/94	27025	Hernandez, Tom R	KE6IIG	Indio	CA	Don Doughty	W6EEN
10/21/94	27026	Morrow, William D	K9AYF	Logansport	IN	Clyde Mayfield	NT9W
10/21/94	27027	Webb, L Albert	W1HOD	S Hadley	MA	Thomas Shea	W1HYO
10/21/94	27028	Garner, Owen S	W1SBM	Hamden	CT	Don Steele	W1NFG
10/21/94	27029	Jugel, Richard D	K0DG	Omaha	NE	Elden C Miller	W0KVM
10/24/94	27030	Heringhaus, Don	WA8ZRZ	Ottawa	OH	-	-
10/24/94	27031	Morgan, Turner F	WD0FJO	Omaha	NE	Elden C Miller	W0KVM
10/24/94	27032	Ross, Barbara M	K7KCY	Carson City	NV	W Reid Ross	W7HOP
10/24/94	27033	Swetman, Rick L	WA9ZDY	Federal Way	WA	-	-
10/25/94	27034	Oleksy, Thomas M	K8LZH	Charlevoix	MI	Thomas M Sorrick	W8IZS
10/25/94	27035	Streib, James T	KB8LWO	Olivet	MI	-	-
10/27/94	27036	Affrunti, Robert E	AA9MI	El Toro	CA	-	-
10/27/94	27037	Speck, Jim	KK5BX	Oklahoma City	OK	Gene Nailon	K5DLE
10/31/94	27038	Fallon, John L	AB7DW	Portland	OR	-	-
10/31/94	27039	Walker, Thomas L	WA3MBF	Camp Hill	PA	Glenn R Kurzenknabe	K3SWZ

New Members

Date	Mem NR	Name	Call	City	St.	Sponsor	Sponsor's Call
10/31/94	27040	Bell, Joseph J	WA1FCA	Planfield	CT	Keith Collins	K1BTD
10/31/94	27041	Fay, Clifford E	K7BQ	Peoria	AZ	Cliff Bruce	W7ER
10/31/94	27042	Key, Walter H Jr	W2DES	Hoffmeister	NY	James C Chase	W2VGE
10/31/94	27043	Schneider, Charles S	W0LTH	Derby	KS	Del Patterson	WOJCY
10/31/94	27044	Woods, Robert L	K0OSB	Ava	MO	-	-
11/02/94	27045	Emmanuel, Sister Mary	KC5AQ	Lufkin	TX	Walt Wiederhold	W5OGZ
11/03/94	27046	Keyes, Jeremiah A	KC6NEI	Santa Rosa	CA	-	-
11/03/94	27047	Mc Candless, Byron H	N8MC	Kent	OH	Walter Strauman	WA8PVS
11/04/94	27048	Moore, Charles E	K2GHH	Oneida	NY	Harold A Mellen	K2UCO
11/04/94	27049	Gritzmacher, Albert M	AE2T	Lockport	NY	Bob Rooney	WA2AET
11/04/94	27050	Miller, Bernard	N7DQU	Worden	MT	-	-
11/04/94	27051	Titus, Floyd Oil	WA3LCO	Erie	PA	-	-
11/07/94	27052	Hardy, Harold W	W8OPO	Kent	OH	Walter Strawman	WA8PVS
11/07/94	27053	Hillard, William R	K6OPZ	Long Beach	CA	-	-
11/08/94	27054	Budde, Henry A	WB4NQF	Fort Lauderdale	FL	-	-
11/08/94	27055	Cirby, Donald C	WB6YXW	Indio	CA	Don Doughty	W6EEN
11/08/94	27056	Closs, Morgan G	W8MCU	Kent	OH	Walter Strawman	WA8PVS
11/08/94	27057	Hyman, Donald E	K9EQT	Logansport	IN	Clyde Mayfield	NT9W
11/08/94	27058	Wilson, Gordon P	KA0LDD	Glenwood	IA	John W Ferrel	W0YDV
11/08/94	27059	Banks, Lawrence W	W1DYJ	Winchester	MA	Samuel E G Banks	WA1INL
11/09/94	27060	Cocking, John T	W6LOB	Saratoga	CA	-	-
11/10/94	27061	Graham, Raymond L Jr	AB5ZI	Sumter	SC	-	-
11/10/94	27062	Kausal, David John	N3EAM	Washington	DC	John J Kelleher	W4ZC
11/10/94	27063	Koehn, G Stanley	K0FII	Wichita	KS	Del Patterson	WOJCY
11/12/94	27064	Cohen, Steven W	W3SD	Newtown	PA	-	-
11/12/94	27065	Neville, John F	KB7YS	Prescott	AZ	-	-
11/14/94	27066	Bell, Freddie E	AA6XS	Salinas	CA	G D Griffin	W8MEP
11/14/94	27067	Bohnenstiehl, R H Sr	N9TRQ	Collinsville	FL	-	-
11/14/94	27068	Ramirez, Luis Arturo	KP4LT	Rio Piedras	PR	Victor Madera	KP4PQ
11/14/94	27069	Sherbert, Mark T	KD6TB	Englewood	CO	-	-
11/14/94	27070	Wear, Glenn L	WB6AVI	Wilseyville	CA	Don Freeman	WS2Z
11/17/94	27071	Benka, John S	K46JG	Los Banos	CA	Elliott M Sperling	KB3LY
11/17/94	27072	Priddy, Nathern B	K5VIP	Melbourne	FL	Art Greene	K4DQC
11/17/94	27073	Reeder, Richard Kent	NC5V	Silsbee	TX	W D George	WA5BFF
11/17/94	27074	Shine, Dan	WA1GGN	West Haven	CT	Milt Chaffee	W1EFW
11/17/94	27075	Vander Zyl, Jerry E	KF4YE	Palm Bay	FL	Art Greene	K4DQC
11/21/94	27076	Fried, Bruce D	K5YXN	Lubbock	TX	Doug Hutton	W5JUV
11/21/94	27077	Hale, Theodore D	W1FFO	Wellesley	MA	Wes Randles	W4COW
11/21/94	27078	Thomas, Rex E	W2WQS	W Lafayette	IN	Lew Gordon	K4VX
11/22/94	27079	Eddleman, Danny C	KR4UB	Chapel Hill	NC	Robert Morrison	KQ4ZV
11/22/94	27080	Tidball, John D	WX4O	Wellington	AL	-	-
11/28/94	27081	Greenburg, Roger	W1ABJ	Norfolk	MA	Charles E Walbridge	K1IGD
11/28/94	27082	Guinn, Henry Alan	WB4GSS	Massapequa	NY	H F Milatz	W2TLC
11/28/94	27083	Hollingsworth, Ted I	KI7BP	Caldwell	ID	-	-
11/28/94	27084	Hurysz, James	AB4YP	Arlington	VA	-	-
11/28/94	27085	Hutchinson, Sidney L	WB4GGS	Augusta	GA	Donald R Anderson	K4PSW
11/28/94	27086	Smith, Robert G	N5NJJ	Alamogordo	NM	W Dean Figgins	WA7EPU
11/28/94	27087	Thalls, Wayne	KB6KN	Santa Cruz	CA	G D Griffin	W8MEP
11/28/94	27088	Walters, Gordon W	K1GO	Birmingham	AL	-	-
11/28/94	27089	Morgan, James E	KE4RDZ	St Petersburg	FL	Edward C Schaefer	K4SS
11/28/94	27090	Needleman, Robert	KD4ZN	North Wales	PA	Phil Young	W1JTH
11/28/94	27091	Petukhov, Vladyslav A	UA4ZA	Cheboksary, Russia	-	-	-
11/29/94	27092	Knapp, Lynn	K7IKO	Cody	WY	-	-
11/29/94	27093	Marburger, Richard A	K0MOL	Green Island	IA	-	-
11/30/94	27094	Johnson, Kenneth H	WA4TOP	Gulfport	FL	J Frederick Strom	K9BSL
11/30/94	27095	Remington, Alan R	W9MYZ	Bigfork	MN	-	-

Silent Keys

* We regret to inform you of the passing of these our fellow members. Note: "*" indicates life member and "^" indicates the exact date of the member's passing is unknown.

Name	Call	Mem NR	L	SK	U	Name	Call	Mem NR	L	SK	U
Domorod, Stanley	W1AKG	02062	*	1994		Reed, E Gil	K5TYV	14188		1994	^
Ransier, William W	N1BA	26015		1994	^	Velman, William L	W6CRG	24818		1994	
De Pasquale, Peter	W1GUC	19487		1994		Baboian, Harry J	W6DTL	14038		1994	^
Lush, Morley J	W1JUR	23783		1994		Mitchell, Ralph A	W6EKW	08080		1994	^
Holbrook, Lawrence S	W1LQN	04997		1994	^	Pawley, Myron G	K6GO	04787		1994	^
Bodman, Lennox F	K1NBG	18399		1994		Sherwood, William H Jr	W6GVK	20415		1994	^
Crocker, David C	W1TMO	20561	*	1994		Johnson, R W	W6MUR	06485	*	1994	^
Carp, J Stanley	KT1V	17561		1994		Lyon, William B	W6PSJ	17748		1994	^
Flint, Richard H	W2EDE	02961		1994	^	Isaacs, John P	W6PZV	03502	*	1994	^
Williams, Harvey G	W2FFU	04564		1994	^	Bernardini, F Kerneil	K6UV	07044	*	1994	
Brown, Herbert L	W2HF	00091		1994		Williams, Roger B	W6WGF	02360	*	1994	^
Hamilton, Dransfield	W2HQY	04264		1994	^	Mills, Andrew J	W6WGG	09219		1994	^
Bienstock, Julius Jerry	W2NNH	21247		1994	^	Smith, Robert A	WA6WIH	22150		1994	^
Basil, Alexander	W2SAA	09924		1994		Moon, Robert B	W6YN	02487		1994	^
Leonard, William A	W2SKE	03046		1994	^						
Martin, James H Jr	W2VPL	14276		1994		Spittle, Samuel E	W7AIX	10722		1994	
						Morrow, Ray E	W7AWE	12439		1994	
Stumpf, Paul L	W3AQN	21377		1994		Gisel, Emil Herman	W7FQ	04778		1994	^
Du Vze, Ralph L	WB3GUQ	14759		1994		Oliver, William	W7GUH	17045	*	1994	
Dinterman, Charles E	W3HOF	05795		1994		Eck, H J	W7HDC	04475		1994	^
Burch, John D	W3JBU	13626		1994	^	Williams, C S	W7JNB	10488		1994	
Miller, Hersh	W3SWD	24628		1994		Ward, Harold G	K7JZO	25525		1994	
Staley, Russell N	K3TYJ	12701		1994		Chandler, Charles W	W7LDJ	03707	*	1994	^
Remich, John E	W3VHV	01285		1994	^	Buchanan, Gaylord A Jr	W7UG	07980	*	1994	
						Fleming, Joe C	W7YI	00328		1994	^
Olseen, Eric E	W4BNQ	08842	*	1994		Whiting, Joseph E	W8ACT	02243		1994	
Curry, A M	N4BOO	13640		1994	^	Damewood, Owen E	WB8AJC	25930		1994	^
Bricker, John H	W4EPZ	02141		1994	^	Leichtamer, John P	W8BCB	08218		1994	
Metz, Stuart B	W4EWC	00628	*	1994		Hogue, Ernest G	W8BNW	19056		1994	^
Gugler, Allen J	W4EZ	01789		1994	^	Eckstein, Sanford	WA8CEA	20155		1994	^
Schreckengost, Tom	N4FJL	15260	*	1994		Green, James R	W8MEI	03494		1994	
Brendel, Lynn C	K4HCV	09497		1994							
Yarbrough, Virgil L	K4IEK	24008		1994	^	Fox, Olin D Sr	K9AKG	20764		1994	
Brock, Perry L	K4JV	13082		1994	^	Janiga, Andrew A	W9HPQ	14810	*	1994	
Wilson, Vernon P	KT4K	17491		1994	^	Horrman, Victor Frank	W9IDG	19777		1994	^
Chamberlin, Paul M	K4KTV	15617		1994	^	Banks, Charles T	K9IS	22675		1994	
Bronsdon, Lawrence O	KA4LAZ	16493		1994	^	Sanders, Robert W	W9LKI	03260	*	1994	
Morgan, H E	NB4M	15360	*	1994	^	Webber, Robert P	WA9MFP	22657		1994	
Deckard, Charles E	W4NOL	10024		1994	^	Lund, Glenn D	W9QOM	21016	*	1994	
Pierson, Walter R	W4OJI	00147		1994							
Conaughty, Robert B	KROQ	06219	*	1994	^	Beasing, Gene	K0DIN	22187		1994	^
Hodson, Albert D	W4PJF	12994		1994		James, Vir N	W0EY	09639	*	1994	
Blaine, William E	W4UYC	19676		1994	^	Reid, Harold E	W0HSV	13430		1994	
Vass, Jason L III	KI4XI	05589	*	1994	^	Dannefer, Keith	W0HYF	11916		1994	
O'bryan, Robert C	W4YMI	19341		1994		Holesovsky, Otto P	W0LEF	08507		1994	^
Crouse, C W	KE4ZS	15336		1994		Lyon, Sherman C	W0OIP	11897		1994	^
						Angle, Lloyd E	W0RWE	08596		1994	
Pratt, W L	K5ASZ	18386		1994	^	Bitner, Robert J	W0SOK	11933		1994	
Hogg, Charles B	N5BT	11479		1994	^	Regan, William J	N0TXX	25712		1994	^
Sutherlin, I D	W5EVB	06922		1994							
Relf, Ben R	W5HDK	04951		1994		Fraser, David M	KH6BIH	13739		1994	^
Chanis, William A	WA5JCK	20622		1994		Weite, Joseph A	KH6GDR	08146		1994	^
Garcia, Caesar B	W5LZR	18014		1994	^	Nolan, Richard Arthur	VO1OM	17562	*	1994	
Williamson, Connie	KB5MBU	23598		1994	^	Laprade, T J	VE3KN	10610	*	1994	
Hubbard, Frank E Jr	W5OFO	26260		1994	^						
Cooper, Dale S	W5PLE	04780		1994	^						



THE WIRELESS EXCHANGE

Guidelines for Exchange Use are:

- (1) List your antique or vintage needs and wants clearly and simply,
 - (2) List what you will accept in trade,
 - (3) List your asking price if no trade is possible,
 - (4) If you advertise, hold the merchandise long enough for members to receive their *JOURNAL* and read this column,
 - (5) Answer all inquiries.
- There is no cost to QCWA members.

Hosted by: J. Douglas Hensley, WJ5J, 5678 College Drive, Baton Rouge, Louisiana 70806

For Sale or Trade

For Sale: Central Electronics Multiphase Exciter, Model 20A, complete with external VFO, Heathkit hand mike and instruction manual. It is in good working condition. Price \$50.00 plus UPS. Al Smith, WØPEX, Secretary Chapter 123, 3529 Douglas Street, Sioux City, Iowa 51104; (712) 258-7475.

For Sale: Racal-117 military HF rcvr, quadruple conversion at 40, 2-3, 1.6, and final 100 kHz IF, filters: 13, 6.5, 3, 1.2, 0.3, and 0.1 KHz with 1 kHz analog readout, service manual included, rack mount w/o cabinet, mint w/extra tube set and some spare parts, \$300; Hallicrafters HT-32 hf xmtr, mint w/manual, \$150; Triplet 3413 tube tester with manual, \$40; Heath HP-32E p.s. for SB-101, \$30; General Radio (tube) RF Signal Generator, 1001A, 5 KHz-50 MHz, \$50; Buyers pay shipping on each; Yuri Dzyuba, VE2XLT, 5865 Des Erables #33, Montreal PQ H2G-2M4 Canada, (514) 273-3191.

Wanted: Suitable low to medium power H.F. military xmtr for use on U.S.S. REQUIN, SS-481. Also need Collins 4A xmtr or other early Collins items, 75A2 or 75A3, speaker, and mechanical filters, McElroy bug, Viking Navigator, Aeriola Junior xtal set, KN9VKY QSL cards. Brian Roberts, K9VKY, 3068 Evergreen Road, Pittsburgh, Pennsylvania 15237, (412) 931-4646.

For Sale: Collins L-30 Linear, w/manual, in need of repair, \$75 plus shipping. Robert Dobbins, W2DAH, 733 Plantation Estates Drive no. A-412, Matthews, North Carolina 28105, (704) 847-3394.

Wanted: Hallicrafters SX-88, SX-73, SX-9, National NC-400, RME-9, Drake TR-4CW, TR-6, R4C, NB for R4C, 3-500Z tubes, early manuals, catalogues, and amateur related literature. Steve Barnes, K6PFW, 848 N. Silverwood, Upland, California 91786, (909) 985-1062.

For Sale: Heath Oscilloscope, IO-12, \$75, Eico VTVM, model 232 (ser. n7456), \$25, Knight R.F. Generator, 160 kHz-112 MHz, \$30, Heath Audio Generator, model IG-72, \$40, Eico

res./cap. bridge, model 950b, \$30, Comparator, ser. 24484, \$25, BC-221 Freq. Meter No. 9719 modified to AC power, \$35, PACO Cap. tester, model C-25 (ser. 64), \$30, Standard marine VHF-FM (ser. 206360), \$90, Bearcat B.C. III scanner (ser. 3-339212), \$45; George Zins, 1067 Vista Fina Court, Spring Hill, Florida 34608-8410, (904) 688-0242.

Wanted: ART-13 cables, plugs, or any part of the system. Especially need the cables and plugs. Bob Starr, W7UE, 1060 Fowler Street, Raymond, Washington 98577, (206) 942-5635.

For Sale: Viking desk KW plate transformer, 2500 VDC @ 800 ma. Will trade for 4-400's. Bill Hawes, W9ERG, 5145 Grove Street, Skokie, Illinois 60077-1542, (708) 966-4741.

Speaker Wanted: Cabinet and speaker in good condition wanted for Hallicrafters SX-117 (ca 1962-63) - R-47 or R-48A. Ernie Savage, VE7FB, c/o Dogwood Chapter 98, 4553 West 12th Avenue, Vancouver, British Columbia, CANADA, V6R 2R4 or FAX (604) 224-4659.

For Sale: Microcraft Code-Star code readout-has BAUDOT 5 level code, 60 wpm, 67 wpm, 100 wpm, ASCII, 8 level code, 110 baud, RTTY, Eight 14 segment character alpha/numer display, \$75; Control-Magnetic desk mike, model 450 (dual hi/lo imped.), \$15; MFJ 1KW dummy load, \$20; Collapsible B&W window mount whip antenna, 40 to 2 meters, all coils, coax assembled w/counterpoise wire, \$25; Take all four items for \$100. Edward Bowley, 86-22 Dongan Avenue, Elmhurst, New York 11373.

Wanted: Drake 1-A, must be clean! Mike Jarchow, KE6HD, 310 Houston Court, Danville, California 94526, (510) 831-1051

Manuals, Schematics, and Correspondence

Wanted: Book or copy of for Philco 7008 Test Set. Richard Bauer, K5RB, 563 Hamrick Road, Dallas, Texas 75218, (214) 348-3378.

Wanted: Service manual and skematic for Commodore 64 computer monitor model CM-141. Salen A. Wolf, K8DQD, 150 Fairview Drive, Geneva, Ohio 44041.

Wanted: QSL from Franklin Seiberling, 8AHF, North Portage Path, Akron, Ohio for museum collection. Margaret A. Tremontine, Curator of Collections, Stan Hywet Hall & Gardens, 714 North Portage Path, Akron, Ohio 44303-1399.

Wanted: Original QSL with call W1DMD, ca 1932-1938. Operator was Carl B. Evans, in New Hampshire. Advise cost. John Alley, W1DMD, 48 Judson Street, Raynham, Massachusetts 02767.

Wanted: 1937 Amateur Radio Callbook. Bill Kuning, 1744 Travers Wharf Road, Cambridge, Maryland 21613, (410) 228-W3BY.

Wanted: ARRL Handbooks from 1938-1955 for station library. Will consider period *QST* bundle if bound. Also need manuals or schematics on Central Electronics 200V, Hunter Bandit 2000 linear, Northern Radio Type 174 FSK converter. Seeking: HT-32B/HA-33, Heath SB-620, RCA 7094 tubes, Warrior for parts. Some vintage gear for trade. Contact Doug via the Exchange.

Wanted: Help! Would like to hear from anyone using an EZ-WAY three section 60 foot tower with Moto-winch elevating system. Don Christensen, W8WOJ, 2004 Ivy Lane, Midland, MI 48642; call collect (517) 835-1307.

Commercial Classified Advertisements

Engravings: Callsign/Name Badges by WØLQV. SASE for price sheet. Box 4133, Overland Park, KS 66204.

Announcements

If you have an operating position comprised of tube equipment or other vintage pieces, share a photo of it with the Exchange. Pictures preferred with chief op and call sign displayed. Those chosen for publication will receive a handsome certificate of appreciation. Operating awards are also being planned to reward interest in vintage gear and to recognize levels of operating accomplishment. Photos and correspondence should be sent to Doug via the Exchange.

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KAM Plus with G-TOR. Together, the two are taking HF digital communications by storm.

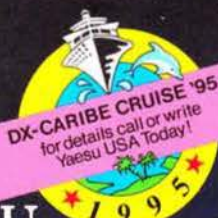
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Introducing an HF that's going places.

"With the small snap-off remote front panel design, it's an HF mobile."



"It's a great base, too. Direct keypad entry, built-in antenna tuner, CW keyer with adjustable speed, 100 Watts, Omni-Glow display... Wow!"

"Yaesu did it again!"

speech processor, twin stacking VFOs, and IF Shift and Notch. No competitor offers this! Bonuses, such as signal



The FT-900AT controls mount almost anywhere in your car, truck or camper. 100 Watt RF deck can mount in trunk, or under seat.

Uncompromising HF quality that will change your lifestyle. It's the first transceiver with true HF technology to go mobile in any vehicle or stay at home as a compact base station.

With its revolutionary, small, snap-off remote panel, the controls of the FT-900AT can install almost anyplace in your car, truck or camper. Since the 100 Watt RF deck can be installed under a seat or in your car trunk, it's away from critical automotive electronic wizardry. And, for ultimate convenience, the built-in antenna tuner simplifies in-car operation.

As a base station, the compact full function FT-900AT includes direct keypad entry for pinpoint accuracy during quick band/frequency changes. Other features you'll like include CW keyer with front panel speed adjustment,



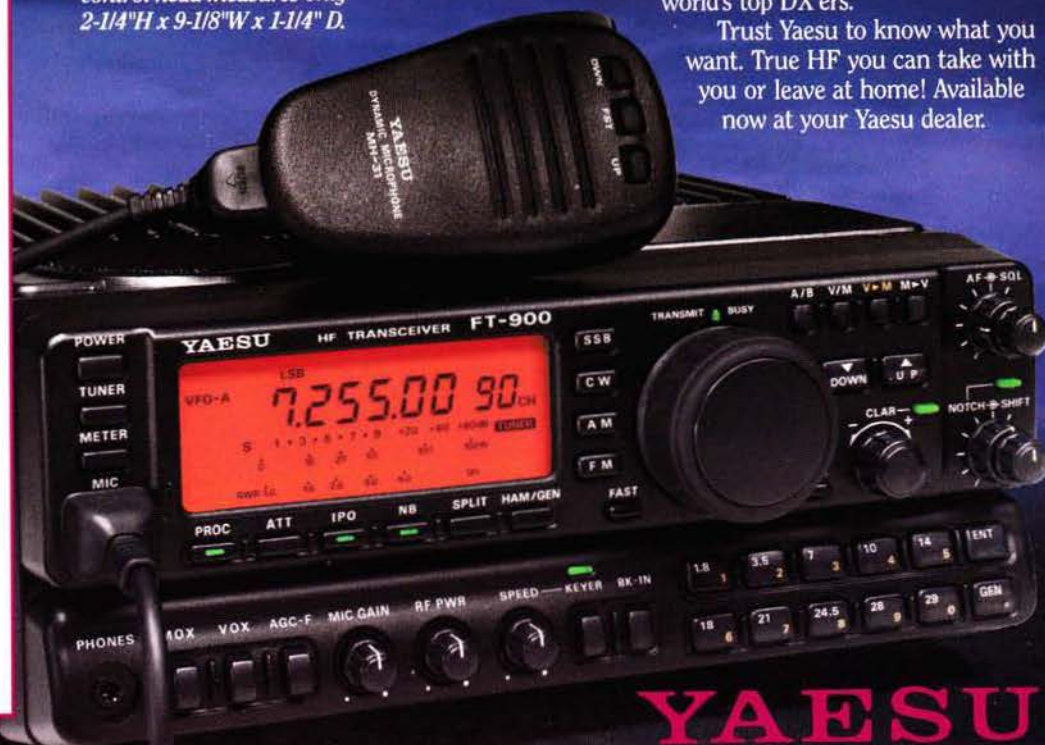
Remote front panel control head measures only 2-1/4"H x 9-1/8"W x 1-1/4"D.

Specifications

- Remote Front Panel Design
- Built-In Auto Antenna Tuner
- Direct Keypad Entry when used as a Base Station
- Large, Bright Omni-Glow™ LCD Display
- 100W on SSB, CW, FM modes; 25W on AM
- IF Shift and 30db Notch Filter
- Digital S/R, SWR & ALC Meters
- Programmable CTCSS Encode w/Repeater Offset
- Direct Digital Synthesis (DDS)
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- Frequency Range
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TX: 160-10 meters
- CW Full Break-in Keying w/Adjustable Speed
- Fast/Slow AGC Circuit
- Intercept Point Optimization
- Duct Flow Cooling System
- Twin Band Stacking VFOs
- Built-in Noise Blanking
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ACCESSORIES:

- YSK-900 Remote Mount Kit
- MMB-62 Controller Bracket
- MMB-20 Mobile Mtg. Bracket
- SP-7 Mobile External Spkr.
- SP-6 Base Station External Spkr.
- DVS-2 Digital Voice Recorder
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strength, power output, SWR and ALC digital meters, add value to the FT-900AT, and the proven duct-flow cooling system provides excellent long-term transmit power output reliability and frequency stability. For ease of use, Yaesu's exclusive Omni-Glow display enhances viewing in any light condition. And, since the high speed antenna tuner is built-in, it means less clutter in your shack.

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40W AM Standard
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- ☐ 4 Function Meter (SWR/ALC/PO/S)
- ☐ VOX
- ☐ RF Gain
- ☐ Pass Band Tuning
- ☐ Notch Filter
- ☐ 10 Electronic Scratch Pad Memories
- ☐ 101 Memory Channels (10 split, 2 scan edge)
- ☐ RIT/ Δ Tx Functions
- ☐ Quick Split w/ Simultaneous Display
- ☐ Speech Compressor
- ☐ Attenuator (20 db)
- ☐ Pre Amplifier (20 db)
- ☐ Double Band Stacking Registers
- ☐ Set Mode Menu to Customize Operation
- ☐ Menu Selectable CW Filters
- ☐ Noise Blanker
- ☐ Fast/Slow AGC
- ☐ High Dynamic Range/Low Distortion
- ☐ Built-in Electronic Keyer
- ☐ Direct Keyboard Entry
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NEXT GENERATION TECHNOLOGY

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DDS (Direct Digital Synthesis) ICOM's unique DDS IC is used for the LPL Circuit. High tech and compact, the PLL unit improves frequency resolution to 1 Hz step. You'll experience an analog feeling of the tuning, faster PLL lockup times, improved phase noise blocking and high dynamic range.

Next Generation Tuner

AT-170 Advanced Tuner Preset memories, in 100kHz steps, provide very high speed tuning. "Automatic re-tune" turns the AT-170 on, and tunes, when SWR exceeds 1.5:1 "Through inhibit" permits tuning at SWR conditions up to 3:1 (when your antenna can't be tuned to 1.5:1). "Sensitive/Normal" gives you the choice of minimum possible SWR or 1.5:1. This eliminates tuning each time you transmit, unless desired.

Next Generation Duty Cycle

100% Full Duty The final power amplifier outputs a stable 100 W in SSB, CW and FM modes. The aluminum die cast frame, large heatsink and innovative twin cooling fan system stabilize the PA circuit to ensure 100% duty cycle operation.

Next Generation Frequency Management

Quick Split Operation Pre-programmable offsets, simultaneous display of Tx and Rx frequencies and XFC (Transmit Frequency Change) give you a competitive edge when calling Dx stations operating split frequencies. "Split Lock" permits changes in your transmit frequency while protecting your receive frequency against accidental changes.

Next Generation CW Operation

CW Contest Package Our built-in electronic keyer with separate key jack, full break-in (QSK) and separate jacks for an extended CW key or memory keyer, make a competitive package for CW contesting. For example, use a memory keyer (or TNC with CW capability) to make contacts easily, then use your paddle for normal operation.

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